

# Denys Chepiha

Fullstack Engineer (React, Next.js, Node, Nest)



## Contact

Austria, Leoben

Langgasse 18

+436641384258

chepihadeveloper@gmail.com

## Portfolio

GitHub: [github.com/CDenisUa](https://github.com/CDenisUa)

<https://www.englishdom.com/ua/>

<https://prozorro.gov.ua/uk>

<https://www.bigfigmattress.com/>

<https://www.dartagnan.com/>

## Education

Dnipro State Agrarian University

Bachelor's Degree in Agricultural

Mechanical Engineering | 2006 - 2011

## Certifications

[Meta Front-End Developer](#)

[Meta React Native](#)

[IBM Back-End JavaScript Developer](#)

[IBM Full-Stack JavaScript Developer](#)

[React Courses, JS courses Udemy](#)

C++ Basic

Python, Django Basic

Frontend Developer Level UP

Design (Photoshop, Illustrator, Figma)

[In-person certifications link](#)

## Language

English - Upper Intermediate (B2)

German - Beginner (A1-A2)

Ukrainian, Russian - Native

Senior Frontend Engineer with 10+ years building large-scale React & Next.js applications, leading UI architecture, performance optimization, legacy modernization, and mentoring teams.

## Core Technical Skills

### Frontend & Web Platform Engineering

- **HTML5, CSS3 (Flexbox, Grid, SCSS, Tailwind)**, responsive UI, design systems, animations, browser & **Web APIs**, core UX patterns
- **Accessibility (a11y): WCAG, ARIA** roles, keyboard navigation, screen readers
- Frontend security: **XSS** prevention, input sanitization, safe URL handling
- Images & Media: responsive images, srcset/sizes, **WebP/AVIF**, lazy loading
- Frontend observability: logging, metrics, error tracking (**Sentry**)

### JavaScript & TypeScript

- **JavaScript Advanced** (ES2024+, asynchronous programming)
- **TypeScript Advanced** (generics, union types, type inference, type guards), performance profiling & debugging

### React & UI Ecosystem

- **React v16-18** (Concurrent, Suspense)
- **Next.js (SSR, SSG, ISR, App Router, RSC)** rendering lifecycle & hydration
- Performance (**CLS, Web Vitals, bundle splitting**)
- React (**hooks & class components**), Suspense, code splitting, resilient UI architectures, modern build tooling, cross-platform development with **React Native**
- Forms & Validation (**React Hook Form, Zod, Yup**)
- Testing: **Jest, React Testing Library, integration & component testing**
- Monorepos (**Nx, Turborepo**), **shared UI & domain packages**

### State & Application Management

- **Redux** (classic), **Redux Toolkit** (Saga), **Zustand, MobX, XState, React Query**

### Real-Time & Event-Driven Systems

- **REST, GraphQL, WebSockets, Server-Sent Events (SSE)**
- Event-driven and streaming data flows
- Real-time dashboards, live updates, notifications
- Polling, push, reconnection, throttling strategies

### Backend Development & APIs

- Node.js backend development (Express, NestJS)
- **RESTful, RPC-style**, and **WebSocket-based APIs**
- Python backend development (**Django, FastAPI**)
- Authentication & authorization (**JWT, role-based access**)
- Error handling, validation, and **API reliability practices**

### Databases, Storage & Messaging

- **PostgreSQL, MongoDB, Redis, Elasticsearch, Kafka**; cloud & on-prem environments

### DevOps & Infrastructure

- **Docker, CI/CD, Kubernetes (basic)**, on-prem & cloud

### Architecture & Engineering Practices

- **Architecture & Engineering Practices**: scalable system design, testing & observability,
- legacy refactoring, code reviews, mentoring, cross-team collaboration

### Tooling & Platforms

- **Git** (GitHub, GitLab, Bitbucket), **Linux, macOS, Windows**

### AI & Intelligent Systems (Active Learning & Integration)

- **LLM-based** application integration, **RAG** pipelines, embeddings & vector search, AI-powered automation, data processing & decision support, model orchestration, prompt engineering, evaluation & monitoring

### Cryptography & Distributed Systems (Active Learning)

- Cryptography fundamentals, distributed systems, blockchain architectures, smart contracts basics, security, consensus mechanisms, on-chain/off-chain integrations

### Systems Programming & Languages

- **Rust** - active learning with hands-on projects
- **C++** basic, syntax-level experience
- **Python** - backend development and scripting

# Experience

## Senior Front-End Developer (React, Next JS, Vike, Redux)

RocketHash | Aug 2025 - Jan 2026

- Led a full refactoring of the sound system for an online casino platform, completely redesigning the sound loading and playback strategy to improve performance, scalability, and maintainability.
- Optimized image delivery across the application by updating **core components**, **introducing lazy loading**, and improving **SVG handling**.
- Upgraded the frontend architecture by fully integrating **Strapi v5 with Cloudflare Images**, designing and implementing the complete image delivery pipeline.
- Designed and implemented a custom **Strapi v5** provider from scratch to integrate with **Cloudflare Images**, as no existing libraries or ready-made solutions were available. The provider was built using official documentation and custom abstractions to ensure seamless interaction between **Strapi and Cloudflare**.
- Developed **Cloudflare Workers** to serve images stored both in **Cloudflare** and **AWS S3**, ensuring flexible, scalable, and performant asset delivery.
- Implemented a cache-first strategy for image loading via **Cloudflare**, significantly reducing bandwidth consumption and image delivery costs.
- **Actively mentored Junior and Middle Frontend Developers**, supporting their growth through guidance, feedback, and best practices.
- Conducted regular code reviews to maintain high code quality, architectural consistency, and **long-term maintainability**.
- Designed and implemented complex, interactive user interfaces with a strong focus on **performance, scalability, and user experience**.
- Improved application **security** by implementing protection against **Cross-Site Scripting (XSS)** vulnerabilities caused by script injection via URL parameters.
- Modernized **legacy** codebases by migrating class-based **React components** to functional components using modern **React patterns**.
- Investigated and resolved long-standing legacy bugs that had remained unsolved for extended periods, significantly improving overall system stability.

### Key Achievements:

- ✓ Led a gradual modernization of a large legacy frontend by introducing a “strangler” approach: new features on Next.js/Vike while safely isolating legacy modules to avoid big-bang rewrites.
- ✓ Rebuilt critical UI flows with SSR/SSG where applicable, improving perceived load time and reducing layout shifts.
- ✓ Implemented advanced code-splitting and dynamic imports for heavy widgets, significantly reducing initial bundle size.
- ✓ Introduced a component-driven architecture to unify legacy and new UI patterns across the product.
- ✓ Built an internal UI kit to replace inconsistent legacy components, increasing UI consistency and accelerating development.
- ✓ Optimized rendering performance using memoization, virtualization, and state isolation, improving responsiveness on low-end devices.
- ✓ Implemented a robust state management strategy (feature-level boundaries, selectors, derived state) to reduce re-renders and simplify complex screens.
- ✓ Established typed API layer patterns (clients, centralized errors, retries/cancellation), improving stability of data-heavy pages.
- ✓ Designed a resilient real-time update strategy (polling/websocket hybrid, backoff, throttling) to keep UI fresh without wasting resources.
- ✓ Hardened security in legacy areas (safe URL parsing, input sanitization), reducing XSS risk.
- ✓ Implemented responsive images with srcset/sizes and device-aware breakpoints to avoid over-downloading on mobile.
- ✓ Introduced modern formats (WebP/AVIF) with graceful fallbacks for legacy browsers, improving quality-to-size ratio.
- ✓ Added lazy-loading and prioritized preloading for above-the-fold assets, improving perceived performance of landing and lobby pages.
- ✓ Refactored legacy components that rendered images incorrectly (missing dimensions/layout shifts), reducing CLS across pages.

# Experience

## ○ Full-Stack Software Engineer (React, Next JS, Redux, Node, Express)

**Exoft** | Apr 2022 - Feb 2025

- Played a key role in building a factory and industrial process management platform from the ground up, leading it to full production release.
- Developed complex modules including real-time dashboards, custom CRM tools, and a built-in PDF reader using **React, Next.js, TypeScript, Redux Toolkit, and React Hook Form**.
- Migrated codebase from vanilla JavaScript to TypeScript, significantly improving scalability and maintainability.
- Engineered an interactive **Leaflet.js map** with custom **SVG** zones, markers, and **Geoman** integration, enabling spatial tracking of factory operations.
- Created backend services using **Node.js, Express**, and both **REST** and **RPC APIs**; implemented secure **JWT-based** authentication, structured logging, **PM2** process management, and **CORS** handling.
- Refactored UI components, replacing Elastic UI with a custom component library tailored to client specifications.
- Wrote unit and integration tests (**Jest, React Testing Library**) achieving **85% test coverage**.
- Ensured full-stack integration and performance optimizations, handling infrastructure-level tasks including **CORS**, API versioning, and deployment workflows.
- Contributed to cross-platform functionality by extending the app with **React Native** modules.
- Designed and owned the overall application architecture, making key technical decisions to ensure scalability, reliability, and long-term maintainability.
- Solved complex technical and product challenges, balancing performance, security, and user experience across the full stack.

### Key Achievements:

- ✓ Built and launched a real-time factory management platform used daily by production teams across multiple sites.
- ✓ Improved data processing speed and dashboard responsiveness by ~35% through backend optimization and frontend memoization strategies.
- ✓ Achieved 85% unit and integration test coverage (Jest, React Testing Library), reducing regressions in critical modules by ~40%.
- ✓ Replaced Elastic UI with a fully custom React component library, improving UI consistency and cutting dev time for new features by 25%.
- ✓ Extended platform to mobile with basic React Native modules, expanding platform access for technicians in the field.
- ✓ Migrated entire frontend from plain JavaScript to strict TypeScript, reducing type-related bugs and improving DX.
- ✓ Created interactive map functionality using Leaflet.js and Geoman, enabling real-time visual tracking of factory operations.
- ✓ Designed a modular infrastructure layer using PM2, environment-based configs, and structured logging.
- ✓ Actively contributed to CI/CD pipeline, streamlining deployment and reducing manual QA effort.

## ○ Senior Front-end Developer (React, Next JS, GraphQL)

**RMG Media** | Jun 2021 - Apr 2022

- Spearheaded the development of a scalable e-commerce platform, enabling rapid deployment of customized client storefronts based on **Magento 2** and a **React/Next.js** frontend stack.
- Delivered **three full-scale production-ready e-commerce stores**, leveraging **TypeScript, GraphQL**, and component-driven architecture to ensure performance, reusability, and scalability.
- Integrated advanced features including **multi-payment gateway support, smart product search, custom auth flows**, and real-time analytics tools.
- Collaborated closely with backend engineers to maintain seamless API integration and stable cross-system performance.
- Took ownership of core platform improvements: optimized rendering logic, modularized the codebase, and introduced **XState** for managing complex state machines.
- Acted as a **technical mentor** to junior developers, providing guidance on architecture, best practices, and conducting regular **code reviews** to maintain high code quality across projects.
- Contributed to design system evolution and internal documentation, improving onboarding and cross-team collaboration.

# Experience

## Key Achievements:

- ✓ Delivered 3 fully customized, high-performance e-commerce storefronts under strict client deadlines.
- ✓ Reduced average page load time by 30% through SSR and component-level rendering optimizations.
- ✓ Integrated multi-payment systems, boosting flexibility for international clients.
- ✓ Led frontend mentoring for 3 junior developers, improving onboarding and code quality across the team.
- ✓ Introduced XState for UI state machines, reducing async bugs by ~50% in checkout and cart logic.

## Front-end Developer (React, Next JS, GraphQL)

EnglishDom | Feb 2019 - May 2021

- Contributed to the development of a feature-rich online education platform used by thousands of learners to improve their English through interactive lessons, live classes, and gamified exercises.
- Built and optimized complex UI components using **React**, **Redux-Saga**, and **GraphQL**, supporting asynchronous data flows and personalized learning paths.
- Developed responsive, animated landing pages for marketing campaigns, balancing creative UX design with high-performance rendering and **SEO optimization**.
- Refactored and updated legacy codebases to enhance stability, readability, and long-term maintainability across both core and promotional products.
- Participated in **code reviews** and mentored junior developers, helping the team adopt modern best practices and improve code quality.
- Contributed to both **feature development** in the main learning system and **UX-heavy marketing initiatives**, acting as a bridge between product and engineering.

## Key Achievements:

- ✓ Migrated the core platform from Backbone to React + Redux-Saga, cutting average page-load time by 35 % and simplifying future enhancements.
- ✓ Implemented a custom SSR pipeline with Next.js, boosting SEO visibility and lifting organic traffic by 20 %.
- ✓ Refactored and standardized a large legacy codebase, reducing future development effort by ≈ 25 % and eliminating 12 k + lines of dead code.
- ✓ Designed and delivered 15 + animated marketing landing pages, increasing campaign conversion rates by 22 % and extending average session duration by 18 %.
- ✓ Mentored three junior developers through pair-programming and code reviews, raising overall test coverage from 30 % to 65 % and accelerating their ramp-up to full productivity.

## Front-end Developer (React, Next JS)

Mavinx (Outstaffing) | May 2018 - Feb 2019

- Developed and maintained several client-facing **React-based** web applications, focusing on responsive layout, cross-browser compatibility, and performance optimization.
- Implemented **Next.js** with **Server-Side Rendering (SSR)** to improve **SEO** and initial load time across international web projects.
- Migrated and modernized legacy **jQuery** codebases, ensuring consistent behavior and styling across major browsers while introducing modular React components.
- Configured and maintained frontend build processes using **Gulp**, enabling faster development cycles and custom deployment pipelines.
- Participated in third-party platform integrations, including contributions to **Prozorro**, a national public procurement system, ensuring UI consistency and stability under high user load.
- Assisted in **QA/debugging** on external projects, identifying and resolving cross-platform bugs within strict deadlines.

## Key Achievements:

- ✓ Migrated the core platform from Backbone to React, improving performance and maintainability.
- ✓ Built a custom SSR system that improved SEO visibility and increased organic traffic by 20%.
- ✓ Refactored and standardized legacy codebase, cutting future dev time by ~25%.
- ✓ Developed animated landing pages that improved campaign conversion rates by 22%.
- ✓ Mentored junior team members during the migration, introducing React best practices and code reviews.

# Experience

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## ○ Fullstack Developer (HTML, CSS, JS, Python, Django, JavaScript)

STEP IT Academy | Feb 2016 - Jan 2017

- Designed and built a full-cycle **booking system** for a beauty salon, enabling customers to browse services, register, and schedule appointments online.
- Developed the backend using **Python (Django)** and **MySQL**, implementing business logic, models, and secure user authentication.
- Created a responsive and user-friendly frontend with **HTML, CSS,** and **vanilla JavaScript**, ensuring compatibility across devices and browsers.
- Deployed the project end-to-end to a live production environment, handling server setup, deployment, and testing workflows.
- Delivered a fully functional, production-ready product independently, showcasing strong **fullstack ownership** and end-to-end development skills.

### Key Achievements:

- ✓ Delivered a complete fullstack booking platform independently, from backend to production deployment.
- ✓ Developed modular, reusable frontend components, improving UX and code reusability.
- ✓ Implemented secure authentication and robust form validation using Django and MySQL.
- ✓ Successfully deployed to live server with full CI-like manual deployment cycle.

## ○ Junior Frontend Developer (HTML, CSS, JS)

LevelUp | Aug 2015 - Feb 2016

- Developed responsive landing pages using **HTML5** and **CSS3**, with a strong focus on mobile-first design and performance optimization.
- Compressed and optimized static assets (images, fonts) to improve page load speed, contributing to faster UX and better SEO scores.
- Ensured full **cross-browser compatibility** and maintained clean, modular code following early best practices.
- Learned and applied foundational JavaScript to add interactivity and support dynamic behavior on promotional pages.
- Collaborated with designers and more senior developers, gaining practical experience in real-world project workflows.
- Actively studied frontend development technologies and web standards, laying the groundwork for future fullstack proficiency.

### Key Achievements:

- ✓ Developed 10+ landing pages optimized for mobile and cross-browser performance.
- ✓ Learned and applied foundational frontend techniques while delivering production-quality layouts.
- ✓ Improved asset delivery by compressing and optimizing images and fonts, enhancing UX.
- ✓ Built interactive components using vanilla JavaScript, gaining hands-on experience in real projects.