

Vova Ushenko

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Summary

Innovative Principal Software Engineer with deep expertise in AI-integrated enterprise solutions, cloud architecture, and scalable web systems. Holder of multiple patents and Oracle Stand Out awards, with a proven record of transforming Oracle's leading Configure, Price, Quote (CPQ) platform — a SaaS solution used by thousands of enterprise customers — through AI agents, natural-language configuration, and next-gen 3D visualization. Trusted for technical leadership, cross-team mentoring, and driving innovations that accelerate business impact and adoption.

Key Technical Skills

Frontend

Languages: JavaScript, TypeScript
Frameworks: React, Next.js, Lit, Three.js, Astro
Testing: Vitest, Jest, Playwright, Storybook
Tools: Vite, Figma, Storybook, GitHub Copilot
Code Mgmt: Git, GitHub, GitLab
Other: PWA, WebGL, WebAssembly, Core Web Vitals, Performance Optimization

Backend

Languages: Java, Node.js, SQL
Frameworks: Nest.js, Express, Fastify
Testing: Jest, Supertest
Tools: Prisma, TypeORM, PM2, Nx, Swagger/OpenAPI
Code Mgmt: CI/CD (Jenkins, GitHub Actions)
Other: AWS (EC2, S3), Docker, Oracle Cloud (OCI Compute, Object Storage, API Gateway)

AI / LLMs

Languages: TypeScript, Python
Frameworks / Libraries: WebLLM, Hugging Face, LangChain
Testing / Validation: Model evals, prompt regression testing, output validation
Tools: OpenAI API, Oracle Agent Studio, OCI Generative AI, vector search
Integration: REST APIs, function calling, structured JSON outputs
Other: Agentic workflows, RAG, natural language interfaces, AI-driven automation

Oracle, Vancouver

Sep 2024 - Present

Principal Software Engineer

Lead frontend development for Oracle CPQ, a platform enabling 500+ global customers to configure, quote, and price complex products. Delivered AI-augmented features including a dynamic quote configuration designer, intelligent layout generation through custom AI agents, natural language-driven 3D configuration, live quote previews, and advanced migration tools — saving clients millions, improving performance by over 50%, and driving a 15% increase in new customer adoption since launch.

- Developed and patented a quote designer/runtime, empowering rapid configuration and quoting of complex products.
- Pioneered AI agent integration to translate CPQ admin prompts into dynamic UI layouts, accelerating customization and reducing manual setup.
- Built a browser-based 3D product configurator with natural language controls, enabling customers to design and modify complex models interactively in real time.
- Engineered a flexible product configurator, enabling customers to build and customize diverse products—from laptops to industrial systems—directly in the browser.

Oracle, Vancouver

Mar 2023 - Sep 2024

Project Lead Software Development

- Directed a cross-functional team to re-implement Oracle CPQ, enabling mission-critical quoting and configuration workflows for enterprise clients.
- Defined architecture and coding standards, improving developer efficiency, code quality, and long-term system scalability.
- Implemented migration strategy and tooling to transition clients from legacy CPQ, reducing reimplementation costs by millions and accelerating adoption.
- Mentored and coached team members, fostering technical growth and collaborative problem solving across the engineering group.
- Optimized Core Web Vitals and performance, cutting load times by more than 50% to deliver smoother quoting workflows.

Senior Software Engineer

- Led modernization and migration of Oracle's largest SaaS CRM application (CX Sales) into the Oracle Fusion Applications ecosystem, enhancing scalability and user experience for global enterprise customers.
- Architected and delivered a Zoom-embedded application for Oracle CX Sales, enabling frictionless virtual selling and adopted by major enterprise clients.
- Prototyped and developed multiple PoC applications for Oracle R&D, accelerating evaluation of new technologies and influencing future product direction.

Chernivtsi National University, Ukraine

Sep 2013 – Dec 2021

PhD Researcher, Assistant Professor, Scientist, Software Engineer

Advanced academic and applied research career combining biomedical engineering, computer science, and software development. Transitioned from research and teaching into full-stack web development, which served as the foundation for my professional career in software engineering.

- Conducted interdisciplinary research on medical image processing and machine learning-based diagnostic algorithms, resulting in multiple publications in high-impact journals.
- Served as Assistant Professor, teaching undergraduate and graduate courses in Computer Science and Networking.
- Completed multiple international postdoctoral research appointments, collaborating with teams across Europe.
- Built web-based platforms and applications for university projects, sparking my transition into enterprise-scale software engineering.
- Published research in leading venues, including [Nature](#) | [Scientific Reports](#).
- [Google Scholar Profile](#)

Education

PhD

Taras Shevchenko National University of Kyiv

Bioinformatics | Biomedical Engineering

Master Of Computer Engineering

Chernivtsi National University

Advanced Computer Networks

Bachelor Of Computer Engineering

Chernivtsi National University

Computer Networking

Key Product Highlights

Oracle Configure, Price, Quote (CPQ) - Quote Designer / Runtime: Developed and patented a dynamic configuration and quoting engine, enabling rapid creation of complex quotes for top enterprise clients, improving speed and accuracy of enterprise sales workflows.

Oracle CPQ - AI-Powered 3D Product Configurator: Built a browser-based 3D visualizer integrated with Oracle CPQ, leveraging AI agents to automate and streamline interactive product configuration and visualization.

Migration Tools for Legacy CPQ: Engineered one-click migration tools for customers transitioning from legacy CPQ systems, reducing implementation time, cutting costs, and accelerating adoption of the new platform.

Oracle Sales Cloud: Played a key role in the reimplementation of Oracle's Sales Cloud across web and mobile platforms, including embedded environments such as Zoom and Outlook, enhancing usability and customer engagement.

Awards and Patents

Oracle CX - Outstanding Contribution 2024: Recognized for leading the successful launch of the CPQ project's quoting flow for Oracle's largest customers, driving efficiency and customer satisfaction. [🔗](#)

Oracle CX - Stand Outs 2025: Honored for exceptional contributions and consistent high-impact performance across Oracle CX initiatives, awarded by Rob Tarkoff - Executive VP and General Manager, Fusion Cloud Customer Experience (CX).

2025 US Patent: Method and System to Define a Real-time Customization Model for Configuring an Enterprise Web Application

2026 Pending Patent: Agentic Interface System for Managing Enterprise Configurations with Dynamic Transition and Updates to Non-Agentic Operations