Valeriy Kuvshinov

Full Stack Engineer | Backend Engineer

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Israeli citizen in Tel Aviv-Yafo, Israel
Hebrew, English, Russian

Experience

Full Stack Engineer at Kuvshinov Software *January 2024 to Current*

- Engineered scalable SaaS applications, IoT backends, and distributed systems with REST API design using Node.js, TypeScript, Java, Spring Boot, Python, AWS and AI coding agents (Claude Code), building products from 0 to 1 through iterative client feedback while minimizing monthly operational costs.
- Designed responsive, component-based frontends with state management using React, Angular, Next.js, JavaScript, HTML and Tailwind CSS, built to be screen-reader compatible and protect businesses from accessibility lawsuits.
- Handled DevOps for client systems by containerizing cloud production environments and managing PostgreSQL/MongoDB databases using Docker, Linux and Git-driven CI/CD pipelines (GitHub Actions), automating zero-downtime deployments and scheduled backups.
- Explained technical concepts such as Oracle Cloud Infrastructure and database architecture to non-technical stakeholders, enabling them to manage their deployed systems independently.

Tech Advisor & Risk Analyst at Israeli Military Intelligence *September 2020 to June 2023*

- Ran periodic and on-demand network audits of applications and connected devices with Wireshark: monitored and analyzed TCP/UDP traffic, traced IP destinations, validated encryption and measured data volume, then hardened endpoint network configurations to reduce exposure.
- Reconfigured Windows and Linux systems on VMware during security events under shifting priorities from command, and trained incoming recruits on our tools and procedures, ensuring a seamless handover and operational continuity.
- Audited OPSEC compliance and supervised network isolation architectures using TOR, Proxy and VPNs, delivering technical risk assessments that resulted in a Distinguished Service Recognition.

Projects

Kuvware Site

- Built a trilingual portfolio site with Angular, NestJS, TypeScript, Tailwind CSS and Supabase, designed for accessibility with native screen-reader support, AAA contrast and a reader overlay, so every visitor can use it.

CModem Terminal

- Developed an open source C tool for embedded Linux devices (Raspberry Pi) to control GSM/GPRS cellular modems via serial AT commands, used in production for remote IoT devices and servers.

Did Not Get It Extension

- Published an open source cross-browser Gmail automation extension using Svelte, TypeScript, JavaScript, CSS, HTML, that automatically filters messages to streamline inbox management and improve user productivity.

Technical Skills

- Porgramming Languages: TypeScript, JavaScript, Java (OOP), Python, C, Bash, HTML, CSS, PowerShell
- Frontend: React.js, Next.js, Angular, Svelte, Tailwind CSS, NgRx, Zustand, Redux, Electron, JavaFX
- Backend: Node.js, NestJS, Express.js, Spring Boot, REST APIs, Websockets
- Databases: PostgreSQL, MongoDB, Supabase
- Cloud: AWS, Oracle Cloud Infrastructure (OCI)
- DevOps: Docker, Git, CI/CD (GitHub Actions), Tailscale, NGINX
- Systems: Linux, Windows, Wireshark, embedded Linux & IoT (GSM/GPRS)

Education

- B.Sc. in Computer Science, Open University of Israel — Status - In Progress (part-time)
- Full Stack Web Bootcamp, MisterBit Coding Academy — Status - Graduated