

Gavin Lloyd

Senior Software Engineer

Location: Portland, Oregon

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Senior full-stack software engineer with over 15 years of experience designing, building, and owning web applications and internal platforms end-to-end, from database design and backend services, to frontend UI and data visualizations. Team lead developing a full-stack engineering platform supporting hardware design organizations, and core contributor to Intel XDK, a publicly shipped cross-platform mobile SDK used by thousands of developers. Skilled at translating complex technical details into clear, actionable guidance for engineers, program managers, senior leadership, and other technical and non-technical stakeholders.

Skills

Languages: JavaScript, TypeScript, Python, SQL, Bash

Frontend: Vue, Angular, HTML/CSS, Webpack

Backend & APIs: Node.js, Express, REST, GraphQL, Microservices

Databases & Data: PostgreSQL, MongoDB, Databricks

Observability: Splunk, Grafana

Infrastructure & Cloud: Linux, Nginx, Docker, AWS, GCP

Testing & Code Quality: Jest, Mocha, ESLint

Practices & Delivery: Git, CI/CD, Agile

AI & LLM Tooling: Claude Code, OpenCode, LangChain

Experience

Senior Software Engineer, Intel Corporation

Jan 2018 – Sep 2025

Built and led development of an internal web platform used by hardware design and other engineering teams to track, triage, and resolve system-on-a-chip (SoC) design defects. Partnered directly with users and stakeholders to turn low-level workflows and scattered data into practical, accessible solutions.

- Architected and owned a microservices-based, full-stack web platform for SoC defect tracking, triage, and resolution, built with TypeScript, Node.js, Vue, REST and GraphQL APIs, MongoDB, and PostgreSQL. The platform supported hundreds of engineers across multiple Intel organizations and 30+ concurrent design programs.
- Engineered both client and server integrations with defect databases, BI tools, Databricks, Splunk, and GitHub, aggregating and normalizing engineering data into unified dashboards that gave teams visibility into program health.
- Served as product owner, gathering requirements from engineers, program managers, and senior leadership. Distilled engineering workflows, system behavior, and raw data into clear requirements, documentation, demonstrations, and dashboards.

- Developed specialized engineering tools, including a time-step power simulation for modeling capacitor charging behavior in SoC designs and a GUI tool for bulk-assigning triage ownership rules for incoming defects, reducing manual overhead and supporting faster design iteration.
- Mentored 20+ interns from onboarding through delivery. Scoped and assigned projects, reviewed contributions, and established best practices for Git, testing, and code review. Supported performance evaluations and career development, including transitions to full-time roles.
- Built onboarding automation for VM provisioning, authentication token and API key issuance, and development-environment setup, cutting intern ramp-up time from days to minutes.

Software Engineer, Intel Corporation

Apr 2013 – Jan 2018

Delivered developer-facing features across Intel XDK's application design, framework migration, and publishing workflows, focusing on eliminating the highest-friction points in the mobile app development lifecycle and turning external developer feedback into shipped product improvements.

- Built core SDK functionality in JavaScript, Angular, HTML, and CSS as part of a 100-engineer team spanning 5 global sites, shipping to thousands of external developers over 5 years of active development.
- Developed core features for Intel XDK's drag-and-drop responsive UI builder, including components of its responsive grid system and support for multiple mobile UI frameworks.
- Delivered a framework-conversion tool that enabled developers to migrate existing layouts between mobile UI frameworks, avoiding the complete redesigns previously required.
- Designed and implemented an end-to-end certificate-signing workflow within Intel XDK, streamlining certificate management and app store publishing into a single in-tool flow.
- Partnered with Technical Consulting Engineers (TCEs) to investigate and resolve external developer issues and feature requests for Intel XDK, converting developer feedback into product fixes and improvements.

Technical Lead, Oregon State University

Sep 2011 – Apr 2013

Led development of internal tools supporting a university helpdesk, with a focus on making account information and support workflows easier for staff and students across campus to navigate.

- Built a web application and unified API that consolidated user account data from disparate systems, giving helpdesk staff faster access to the information needed to assist students and faculty.
- Led a team of 3 to 5 student developers building and maintaining helpdesk tools, coordinating work and supporting reliable delivery for a high-volume support operation.

Education

B.S. Computer Science, Oregon State University

2013