

Ethan Vernon

Software Engineer • Full-Stack Product Engineer

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PROFESSIONAL SUMMARY

Full-stack software engineer with 7 years of experience building business-critical services. Managed 30+ front-end applications, 20+ backend services, and 3 databases while supporting systems used by roughly 100+ shops and 6,000+ advisors/users. Surfaced \$44.7M in unreported commission revenue over 2 years, and helped increase team velocity from roughly 30 to 120 story points per sprint through team-adopted AI engineering workflows.

AREAS OF EXPERTISE

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|--------------------|--|
| ENGINEERING | Full-Stack Engineering Legacy API Migration Internal Tools Reporting Systems AI-Assisted Developer Workflows Cloud Engineering Cloud Architecture Production Debugging Data Pipelines Admin Consoles Code Review Agile |
| TECHNICAL | TypeScript JavaScript React Next.js React Query Node.js REST APIs AWS AWS Serverless AWS Lambda S3 SQS/Queues PostgreSQL MongoDB MS SQL Playwright GitHub Jira Claude Code Codex LLM Agents |

PROFESSIONAL EXPERIENCE

Software Engineer, Engel & Volkers Americas | Remote

Aug. 2021 - May 2026

- **AI Engineering Workflows:** Increased team delivery velocity 4x by creating team-adopted workflows for ticket creation, ticket execution, PR review, and QA handoff using Claude Code/Codex-compatible skills, deterministic scripts, Jira/GitHub APIs, repo-specific context files, and human-in-the-loop review gates.
- **Production Reporting:** Surfaced \$44.7M in previously unreported commission revenue and 3,300 previously unreported deals over 2 years by automating awards and production reporting workflows, improving year-end visibility across advisor production data.
- **Production Console:** Pre-surfaced reportable transactions before advisor submission, giving shops and business teams visibility into MLS-sourced deals that needed to be reported and replacing manual follow-up workflows with automated reporting visibility across advisor production activity.
- **Report Migration:** Reduced legacy architecture dependency, developer overhead, and business-reporting risk by migrating and maintaining 8 recurring biweekly business reports from legacy APIs into Deals Service, preserving report behavior, delivery workflows, compliance expectations, and inherited reporting knowledge from prior engineering teams.
- **Pipeline Reliability:** Protected franchise compliance and downstream reporting integrity by debugging and repairing a business-critical deal export pipeline where Production Console records were missing from Hamburg/BigQuery reporting, tracing delivery across service logic, queue routing, persistence, and verification paths.
- **Legacy Modernization:** Reduced cost, change risk, and developer overhead by migrating critical Deals API functionality out of an unmaintainable MS SQL / legacy Node / older AWS architecture into PostgreSQL-backed AWS Lambda microservices with isolated CI/CD, QA, testing, and deployment workflows.
- **Production Incident Response:** Served as a go-to engineer for business-critical referral, reporting, and revenue incidents, resolving missing S3 report issues caused by MongoDB connection lifecycle bugs in warm Lambda containers and overly broad S3 lifecycle deletion policies.
- **Listings Data Platform:** Removed third-party listing-syndication dependency by building and maintaining in-house listing ingestion and syndication workflows, increasing visibility into real estate activity as transactions appeared in MLS systems rather than only after advisor reporting.
- **Admin Platform Reliability:** Reduced internal-tool maintenance overhead by migrating dozens of administrative front-end applications into a shared monorepo with reusable components, shared logic, modern CI/CD, and brand-aligned internal system standards.

Full-Stack Web Developer, Evolve Security | Remote

Aug. 2019 - Aug. 2021

Built cybersecurity training and vulnerability-management software across .NET Core, Vue.js, Python, SQL, Azure, and reporting workflows.

- **Cybersecurity Platform:** Built a .NET Core and Vue.js single-page web application from design and data model in 4 months, delivering 82 reusable UI components and 46 API endpoints for an online cybersecurity training platform.
- **Authentication Scale:** Supported a solution handling 500,000+ monthly authentications with 0 reported security vulnerabilities.
- **Parser Optimization:** Reduced SQL/Python parser query volume by 99% and processing time by 90%, replacing manual consultant review of network scans and vulnerability records.
- **Reporting Tooling:** Designed and built a Vue.js/Python markdown-based reporting tool to replace manual Word-based reporting and copy/paste workflows.
- **Azure / API Delivery:** Built and connected Vue.js frontends with .NET Core APIs, Azure Active Directory authentication, Azure flows, Azure logic apps, and cloud deployment workflows.
- **Stakeholder Leadership:** Communicated with multiple teams and clients, designed a version 2.0 client vulnerability-management platform, presented the design to stakeholders, and led development on a patent-pending software solution.

EDUCATION

Bachelor of Arts, International Affairs and Chinese - University of Colorado Boulder

Self-Taught Software Curriculum - FreeCodeCamp and Codecademy; 1000+ hours, 30 solo projects, MERN stack