

Ethan Bovard

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EDUCATION

Georgia State University
BSc Computer Science

Atlanta, GA
Aug 2016 - May 2021

WORK EXPERIENCE

Aegis Health Services

Full-Stack Software Engineer

Atlanta, GA
September 2025 - July 2026

- Engineered features across a clinical case management platform serving a large network of partner labs across Pharmacogenomics, Pathology, and Infectious Disease review workflows using React, Django, and AWS (API Gateway, Lambda)
- Rearchitected the clinician compensation backend, cutting projected costs by 65% as case volume doubled; supported flat and time-tiered pay schemes and enabled Finance to self-serve rate changes via an admin panel
- Collaborated with the clinical director to engineer an AI-powered pharmacogenomics summarization pipeline using GPT, automating a clinically required workflow across a high volume of monthly reports and reducing manual reference review time per case
- Engineered a new case type enabling a recurring-consult product line, snapshotting patient clinical context (medications, prior recommendations) per encounter to preserve an immutable record of what the clinician saw at each review
- Built an internal partner/patient intake API on AWS (API Gateway, Lambda); owned a core status-tracking component managing state transitions as an immutable event log, and implemented an async, queue-based handoff between backend systems to trigger downstream storage of clinical findings summaries

Itential

Software Engineer

Atlanta, GA
August 2021 - September 2025

- Delivered network automation solutions on the Itential platform for Fortune 500 clients including Verizon, Johnson & Johnson, Lumen, Northern Trust, and British Telecom, developing custom JavaScript and Python extensions to address use cases beyond the platform's native capabilities
- Identified a 20-hour bottleneck in Verizon's 5G router config conversion utility (Nokia/Alcatel-Lucent/Cisco → Ciena) for ~10,000 devices; parallelized the workload across processes, cutting runtime to 2 hours
- Built an Itential-driven F5 load balancer upgrade automation for Northern Trust's 1,000+ appliance production fleet, implementing HA-aware orchestration (upgrade secondary, role-swap, upgrade primary), pre/post-check guardrails, SFTP-based firmware distribution, and ServiceNow change-management integration; gathered requirements directly with Northern Trust's network engineering team and F5 solutions architect

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, C#

Technologies: Git, Docker, Terraform, Visual Studio Code, GPT, CI/CD, Agile, AWS

Backend Technologies: Django, RabbitMQ, Node.js, MongoDB, PostgreSQL, FastAPI, Redis

Frontend Technologies: React, Motion, Tailwind CSS, HTML, CSS, Vite

PERSONAL PROJECTS

Simple Trivia Game *React, Next.js, TypeScript, Socket.IO, Motion, Postgres, Redis* — <https://simpletrivia.io>

Built a full-stack trivia platform with real-time WebSocket gameplay via Socket.IO, a Question Editor supporting custom and curated question sets, a moderated community Trivia Workshop, friend system, and guest play.

Helical *TypeScript, tRPC, Next.js, Python* — <https://helical.video>

Building an automated round-trip digital-to-VHS-to-digital service that gives personal and commercial video projects an authentic analog look, featuring a customer-facing web portal, a Python edge-worker pipeline for hardware playout and digitization, and an approval-based order flow with deliverable generation and payment capture.

Microsoft Visual Studio Code *JavaScript* — <https://github.com/microsoft/vscode>

Merged PR: Added Open Active Diff Side command to the Command Palette.