Jeff Graham

Full-Stack Engineer · TypeScript, React, Node.js, Next.js · AWS Certified SA Professional

Washington, DC · 227-206-8144 · jeffgrahamcodes@gmail.com · linkedin.com/in/jeffgrahamcodes · github.com/jeffgrahamcodes · jeffgraham.codes

SUMMARY

Full-stack engineer with 4 years shipping production web apps and backend services in TypeScript, Node.js, and modern frontend frameworks. Spent nearly 3 years at AWS designing event-driven systems and building generative AI tooling that cut partner review time by 33%. Now teaching math and Python to 9th graders, which means I watch every day where students get stuck and what help gets them moving. I want to build that help at scale.

SKILLS

- **Languages:** TypeScript, JavaScript, Python, SQL
- **Frontend:** React, Next.js, Vue 3
- **Backend:** Node.js, REST APIs, GraphQL
- **Cloud and DevOps:** AWS (Lambda, API Gateway, DynamoDB, EventBridge, Step Functions), Docker, GitLab CI/CD
- **AI:** Amazon Bedrock, OpenAI API, LLM-powered automation pipelines

EXPERIENCE

Digital Pioneers Academy · Python & Mathematics Instructor

Washington, DC · Aug 2025 to Present

- Teach Python and math to 9th grade students through project-based units, using classroom tools I built in Python.
- Build portfolio products in Next.js and TypeScript alongside teaching, including LearnLift (below).

Amazon Web Services · Partner Solutions Architect

Arlington, VA · Aug 2022 to May 2025

- Built internal generative AI tooling on Amazon Bedrock that automated partner assessments, cutting onboarding review time by 33%.
- Designed and built production event-driven workflows with EventBridge, Lambda, and Step Functions for real-time data processing and partner integrations.
- Shipped CI/CD integrations with CodeCatalyst and Amazon Inspector that improved security posture across partner deployments.
- Advised partner engineering teams on system design, scalability, and resilience, and led workshops on backend development and DevOps practices.

Bloomberg Industry Group · Web Application Architect

Arlington, VA · Feb 2022 to Aug 2022

- Owned a core production business application end to end and led its migration from Vue 2 to Vue 3.
- Refactored its REST and GraphQL integrations so data moved more reliably between services.
- Built GitLab CI/CD pipelines for testing, linting, and deployment.

Cognizant · Web Developer

Remote · Mar 2021 to Dec 2021

- Designed and built REST APIs in Node.js and TypeScript for customer-facing applications.
- Cut API response times by 40% through data modeling and caching.
- Deployed services to production on AWS Lambda, API Gateway, and DynamoDB with CI/CD.

PROJECTS

LearnLift · Next.js (App Router), Tailwind CSS, FastAPI, OpenAI API

learnlift.vercel.app · github.com/jeffgrahamcodes/learnlift

- Built an AI writing coach that gives middle schoolers in underrepresented communities instant, encouraging feedback tuned to grade level (5th to 9th).
- Designed the full stack: a Next.js frontend on Vercel and a FastAPI service on Render that calls the OpenAI API, with keys kept server-side.

EARLIER CAREER

- **Educator, DC-area schools (2006 to 2020):** Math and STEM teacher and program coordinator at DC Public Schools, Prince George's County Public Schools, and Friendship Public Charter School. Built data-driven instruction and project-based STEM curricula.
- **U.S. Air Force, Communications & Information Systems Officer, Captain (2001 to 2005):** Built an automated incident ticketing process that cut average response time by 15%, and strengthened network monitoring to raise system uptime by 27%.

EDUCATION AND CERTIFICATION

AWS Certified Solutions Architect, Professional · B.A., Psychology, Morehouse College · Nucamp Full-Stack and Backend/DevOps bootcamps