

Kyle Headley

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Full-Stack Software Engineer (React, Node.js, AWS)

Early-career engineer with hands-on experience building and deploying production web applications using modern JavaScript, cloud infrastructure, and AI-powered features. Strong background in full-stack development, API design, authentication, and CI/CD, with experience shipping real products in fast-paced, collaborative environments.

Technical Skills:

- **Languages:** JavaScript (ES6+), TypeScript, Python
- **Frontend:** React, Tailwind, MUI
- **Backend:** Node.js, Express, REST APIs
- **Databases:** MongoDB, PostgreSQL, MySQL
- **Cloud & DevOps:** AWS (EC2, Lambda, S3), Docker, GitHub Actions
- **Testing & Auth:** Jest, SuperTest, OAuth (GitHub)
- **AI :** OpenAI API, vector databases (Qdrant, Pinecone)

Experience:

Full-Stack Engineer — OSLabs (Open-Source Product Residency)

2025

DevStack AI — AI-powered developer onboarding tool for searching codebases and documentation using natural language.

- Built a full-stack web application that allows developers to query large codebases in natural language, helping new engineers understand unfamiliar systems faster.
- Implemented semantic search using vector embeddings and LLMs to return file-linked, traceable answers across JavaScript and Python repositories.
- Developed a React frontend that displays contextual search results, improving usability and reducing onboarding ramp-up time by an estimated 30%.
- Integrated GitHub OAuth to securely authenticate users and manage access across multiple repositories and workspaces.
- Automated repository ingestion and indexing pipelines to ensure consistent, up-to-date search results.
- Collaborated with a small engineering team to design APIs, review code, and ship a production-ready MVP.

Tech: React, Node.js/Express, Python, MongoDB, Qdrant, OpenAI API, AWS

Software Engineer (Contract) — Nooxit

2024-2025

- Built and maintained internal web applications used by 10+ internal users to manage operational workflows and system configuration.
- Developed RESTful APIs in Node.js/Express to support frontend features, handle business logic, and integrate with cloud-hosted databases and third-party services.
- Implemented authentication and role-based access control to support secure multi-user workflows.
- Created AI-powered tools that ingest PDFs and structured documents, generate embeddings, and provide natural-language answers via a React interface.
- Designed and deployed a reliable cloud infrastructure on AWS (EC2, S3, managed databases), supporting production environments with minimal downtime.
- Built CI/CD pipelines with GitHub Actions to automate testing and deployments, reducing release time from hours to minutes.
- Containerized services using Docker and deployed them using Kubernetes to improve consistency across development and production environments.

Education

Codesmith – Advanced Residency for Software Engineering | Remote

2025

Level Up in Tech – Cloud & DevOps Training | Remote

2022 - 2023

Project-based, cohort-driven curriculum covering AWS services, serverless architectures, containerization (Docker, Kubernetes), Infrastructure as Code (Terraform), and CI/CD pipelines

Associate of Arts

Kingsborough Community College, Brooklyn, NY

Certifications

- AWS Developer Associate (2023)
- LPI Linux Essentials (2022)

