

Kyle Headley

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Full-Stack Engineer (TypeScript/React, Node/Express) | AI-enabled developer tooling | AWS

Full-stack engineer building production web apps with TypeScript/React frontends and Node/Express APIs. Experienced in auth/integrations, data pipelines, and reliability work (testing, logging, retries) for user-facing products.

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)
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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 to speed up onboarding.
- Led backend implementation in Node.js/Express, defining API contracts and data models for search, repos, and workspaces.
- Implemented semantic search and RAG using embeddings (Qdrant) and LLMs to return file-linked, traceable answers across JavaScript and Python repositories.
- Contributed to the React UI for search/results display, including UX states and API integration, improving usability and reducing onboarding ramp-up time by ~30% (est.).
- Integrated GitHub OAuth to securely authenticate users and manage access across multiple repositories and environments.
- Automated repository ingestion and indexing pipelines and partnered with a small team to 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.
 - Built AI-powered tools that ingest PDFs and structured documents, generate embeddings, and provide natural-language answers via a React interface.
 - Designed and deployed cloud infrastructure on AWS (EC2, S3, managed databases) supporting production environments with high availability.
 - Built CI/CD pipelines with GitHub Actions to automate testing and deployments, reducing release time from hours to minutes.
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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)

