

MICHAEL ADAMS

Senior AI Full Stack Engineer | DevOps

+1 6197225554 • ranky.dragon@gmail.com • www.linkedin.com/in/michael-adams-3919ab367 • Orange, TX

Summary

Senior AI & Full Stack Developer with 14+ years of experience architecting and delivering scalable, high-performance systems and applications. Former Senior Full Stack Developer at **Webasen** and AI Engineer at **Microsoft**, building production-grade solutions at global scale. Expertise in deep learning, distributed systems, cloud-native infrastructure, and modern full-stack architectures, with a strong focus on driving real-world impact through advanced technology.

Work History

Webasen

Remote

Artificial Intelligence Engineer | Senior Full Stack Engineer | Full-Time

09/2025 - Present

- Design and develop **AI-powered web applications and automation systems** integrating Large Language Models using the OpenAI API to enable intelligent content generation, data analysis, and workflow automation.
- Build scalable **backend services and APIs** using Node.js and Python, implementing microservices architectures for high-performance data processing and AI-driven features.
- Implement **Retrieval-Augmented Generation (RAG)** pipelines using vector embeddings and semantic search to improve accuracy of AI-generated responses and enterprise knowledge retrieval.
- Develop modern **frontend interfaces** using React and TypeScript to deliver responsive, data-driven user experiences integrated with AI services.
- **Tech Stack:** Python, Node.js, React, TypeScript, OpenAI API, LangChain, PostgreSQL, Docker, Kubernetes, AWS, GCP.

Microsoft

Remote

Full Stack Engineer | AI Engineer | Project Manager | Full-Time

08/2023 - 08/2025

- Led the design and development of **AI-powered SaaS platforms and analytics systems**, integrating Large Language Models through the OpenAI API to enable intelligent automation, predictive insights, and data-driven decision making.
- Architected and implemented scalable **full-stack web applications** using Node.js, Python, React, and TypeScript, delivering high-performance APIs and modern user interfaces for enterprise clients.
- Managed and mentored cross-functional engineering teams in an **Agile development environment**, coordinating project planning, technical design, and product delivery.
- Developed scalable **REST and GraphQL APIs** supporting large-scale data processing and real-time analytics systems.
- **Tech Stack:** Node.js, Python, React, TypeScript, OpenAI API, PostgreSQL, MongoDB, Docker, AWS, Azure, CI/CD.

Netflix

Remote

Full Stack Engineer | Full-Time

01/2022 - 07/2023

- Developed and maintained scalable **full-stack web applications** supporting online insurance services, improving platform performance and user experience.
- Built robust **backend APIs and microservices** using Node.js and Python to handle client data processing, authentication, and business logic for insurance-related workflows.
- Designed and implemented responsive **frontend interfaces** using React and modern JavaScript frameworks to deliver seamless and intuitive user experiences.
- Integrated third-party services and APIs to support **payment processing, document management, and customer data systems**.
- Optimized database queries and backend logic using PostgreSQL and MongoDB to improve application performance and data reliability.
- **Tech Stack:** Node.js, Python, React, JavaScript, PostgreSQL, MongoDB, AWS, REST APIs.

Work History

LeadAction

Remote

Full Stack Engineer | Full-Time

09/2017 - 12/2021

- Developed and maintained scalable **SaaS platforms and web applications** supporting marketing automation and customer engagement systems used by businesses to manage campaigns and communication workflows.
- Designed and implemented **high-performance backend services and RESTful APIs** using Node.js and Python, enabling reliable data processing and integration with external services.
- Built modern and responsive **frontend applications** using React and JavaScript, delivering intuitive dashboards and user interfaces for campaign management and analytics.
- Implemented **email and SMS automation workflows**, supporting large-scale messaging infrastructure and customer engagement tools.
- Designed and optimized **database schemas and queries** using PostgreSQL and MySQL to support high-volume transactional and analytics workloads.
- Integrated third-party APIs for **payment systems, marketing platforms, and communication services**, expanding the platform's automation capabilities.
- **Tech Stack:** Node.js, React, JavaScript, PostgreSQL, MySQL, Redis, REST APIs, AWS.

Alpaca

Remote

Full Stack Engineer | Contract

08/2012 - 08/2017

- Started as a **software engineering intern** and progressed into a **Full-Stack Developer role**, contributing to the development of internal tools and web-based applications.
- Developed responsive **frontend interfaces** using JavaScript, HTML5, and CSS, improving usability and accessibility across desktop and mobile devices.
- Participated in the development of **database-driven applications**, writing optimized queries and maintaining relational databases such as MySQL and PostgreSQL.
- Contributed to the integration of third-party APIs and external services to extend application functionality.
- Collaborated with senior engineers and designers to deliver product features, fix bugs, and improve overall platform performance.
- Gained hands-on experience with **software development lifecycle practices**, version control systems, and Agile development workflows.
- **Tech Stack:** JavaScript, Node.js, PHP, HTML, CSS, MySQL, REST APIs, Git.

Education

DeepLearning.AI

Online

Generative AI with Large Language Models

2024

Stanford University(Online Program)

Online

Machine Learning Specialization

2021

Campbell University

NC, United States

Bachelor's degree in Computer Science

04/2010 - 03/2014

Skills

AI & Machine Learning:

Large Language Models (LLMs), Generative AI Systems, Prompt Engineering, AI Workflow Automation, Retrieval Augmented Generation (RAG), Embeddings, Semantic Search, AI Agents and Tool Integration, Model Evaluation and Optimization

Frameworks & Libraries: OpenAI API, LangChain, LlamaIndex, Hugging Face Transformers, PyTorch, TensorFlow, Scikit-learn

Backend & API Development:

Node.js, Express.js, NestJS, Python (FastAPI, Django, Flask), REST APIs, GraphQL APIs, Microservices Architecture, Authentication (OAuth, JWT), API Gateway and Service Integration

Frontend Development:

React, TypeScript, JavaScript (ES6+), Next.js, Vite, HTML5, CSS3, Tailwind CSS, Responsive UI Development, Data Visualization (Recharts, Chart.js)

Skills

Cloud & DevOps:

AWS(EC2, S3, Lambda, RDS, IAM, SQS), Microsoft Azure, Google Cloud Platform, Docker, Kubernetes, CI/CD Pipelines, Infrastructure as Code

Data Engineering & Databases:

PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Data Pipelines and ETL Workflows, Vector Databases and Semantic Search, Pinecone, Weaviate, Milvus

Software Architecture:

Scalable SaaS Architecture, Distributed Systems Design, Cloud-Native Application Development, High-Performance API Systems, Event-Driven Architecture

Development Tools:

Git, GitHub, GitLab, Linux / Unix Environments, Agile / Scrum Development, Technical Documentation and Code Reviews