Michael Philip

FULL STACK SOFTWARE ENGINEER | AI ENGINEER

Birmingham, AL, USA • +1 (774) 393-2974 • michealphilipsdev@gmail.com • linkedin.com/in/michael-j-philip

PROFESSIONAL SUMMARY

Full Stack Software Engineer and AI Engineer with nearly 5 years of experience designing, building, and maintaining web applications, backend services, and REST APIs. Currently at Airdev, integrating large language models (LLMs) and retrieval-augmented generation (RAG) into production applications. Works across the full stack with React, Next.js, TypeScript, Node.js, Python, Java, and .NET/C#, backed by PostgreSQL, SQL Server, and Redis, and deployed on AWS and Azure. Experienced with AI agents, semantic search, and microservices. Comfortable owning features end to end, from API design and data modeling to responsive interfaces, testing, and production troubleshooting, with a focus on clean, maintainable code.

CORE COMPETENCIES

- Full-stack web development
- REST APIs and GraphQL
- Microservices architecture
- LLM and generative AI
- RAG and vector search
- AI agents and automation
- Semantic search and NLP
- Database design
- Cloud (AWS, Azure)
- Auth (JWT, OAuth 2.0)
- Testing and code review
- Performance optimization

PROFESSIONAL EXPERIENCE

Airdev

Oct 2024 – Present

Full-Stack & AI Engineer

Remote

- Build full-stack web applications end to end with React, Next.js, TypeScript, and Node.js, from data model to UI.
- Integrate LLMs and generative AI services into product workflows and user-facing features through well-structured APIs.
- Implement retrieval-augmented generation (RAG) to ground AI features in each application's own data.
- Design prompts and retrieval logic that keep AI responses relevant, accurate, and consistent across real user requests.
- Develop backend services, REST APIs, and third-party integrations, including AI providers.
- Build reusable React components for faster, more consistent UI delivery across features.
- Troubleshoot production issues, optimize performance, and review code to keep the codebase maintainable.

Tech: React, Next.js, TypeScript, Node.js, LLMs, Generative AI, RAG, REST APIs, Third-Party APIs

Krown Petroleum

Jan 2023 – Aug 2024

Full-Stack Developer

On-site

- Built and maintained full-stack web applications that supported the company's day-to-day internal business operations.
- Developed backend services and REST APIs in C# with ASP.NET Core (.NET) and in Java with Spring Boot, connecting internal tools to company data.
- Built database integrations, wrote SQL queries, and designed data models supporting daily operations and reporting.
- Built responsive frontends and reusable UI components with modern JavaScript for a consistent user experience.
- Tested, debugged, and improved application performance and reliability, resolving issues raised by internal users.

Tech: C#, .NET, ASP.NET Core, Java, Spring Boot, JavaScript, SQL, REST APIs, Responsive UI

Hotels.ng

Jan 2022 – Nov 2022

Junior Full-Stack Developer

Remote

- Delivered frontend and backend features for customer-facing web applications on a hotel booking platform.
- Built responsive interfaces that worked consistently for desktop and mobile users.
- Built and integrated backend services, REST APIs, and database workflows behind customer-facing features.
- Took part in code reviews and Agile sprints with a distributed remote engineering team.
- Fixed bugs and refactored code with the team to improve code quality and long-term maintainability.

Tech: Frontend & Backend Development, REST APIs, SQL, Responsive UI, Agile

Michael Philip

FULL STACK SOFTWARE ENGINEER | AI ENGINEER

SIDE PROJECTS

Hanzo AI — AI Development Platform

hanzo.ai

An AI-focused platform supporting intelligent software development and AI-powered workflows, bringing language models, agents, and orchestration together for developers.

- Connected platform features to large language models through LLM integration, linking application services to models.
- Helped build AI agents and model orchestration that coordinate multi-step, AI-powered workflows for developers.
- Supported the AI infrastructure and backend services behind the platform's development tools.
- Worked across the stack, building React and Next.js interfaces, TypeScript/Node.js and Python services, and integrations with OpenAI and other LLM provider APIs.

Focus: LLM integration, AI agents, model orchestration, AI infrastructure
Tech: TypeScript, Node.js, Python, React, Next.js, OpenAI API, LLM APIs

Juicebox — AI Recruiting Platform

juicebox.ai

An AI-powered recruitment platform focused on candidate discovery and talent sourcing, helping recruiters move from a job description to a shortlist of strong candidates faster.

- Created semantic search features that help recruiters find candidates by meaning rather than exact keywords.
- Contributed to candidate matching and natural language processing (NLP) features for talent sourcing.
- Automated repetitive recruitment tasks to reduce manual sourcing work for recruiting teams.
- Built Python and TypeScript/Node.js services that generate embeddings and run vector search, with results surfaced to recruiters through React and Next.js interfaces.

Focus: semantic search, NLP, candidate matching, workflow automation
Tech: Python, TypeScript, Node.js, React, Next.js, Embeddings, Vector Search

MyCo — AI Business Assistant

myco.com

An AI-powered business assistant designed to automate everyday business operations, giving small teams a single place to handle routine work through conversation.

- Expanded the assistant's AI agents and conversational AI to handle more everyday business tasks.
- Streamlined business operations with workflow automation that reduces repetitive manual work.
- Linked the assistant to the tools businesses already use through third-party integrations.
- Developed agent logic and backend services in Python and TypeScript/Node.js on top of OpenAI and LLM APIs, with React and Next.js interfaces for the assistant.

Focus: conversational AI, AI agents, workflow automation, third-party integrations
Tech: TypeScript, Node.js, Python, React, Next.js, OpenAI API, LLM APIs

TECHNICAL SKILLS

Languages	JavaScript (ES6+), TypeScript, Python, Java, C#, PHP, SQL
Frontend	React.js, Next.js, Angular, HTML5, CSS3, Tailwind CSS, State Management, Responsive UI, 3D Visualization
Backend	Node.js, Express.js, ASP.NET Core, .NET, Spring Boot, RESTful APIs, GraphQL, Microservices, JWT, OAuth 2.0
Databases	PostgreSQL, SQL Server, MySQL, MongoDB, Redis, Vector Search, Database Design, Query Optimization
AI & LLMs	LLM Integration, OpenAI API, Prompt Engineering, RAG, Embeddings, AI Agents, Semantic Search, NLP
Cloud & DevOps	AWS, Microsoft Azure, Docker, CI/CD, GitHub Actions, Git, Linux
Testing & Quality Engineering	Unit & Integration Testing, API Testing, Debugging, Code Review, Performance Tuning, Agile / Scrum
	OOP, SOLID Principles, Design Patterns, Clean Architecture, System Design, Distributed Systems

EDUCATION

University of Alabama at Birmingham

Jan 2018 – Nov 2021

Bachelor of Science in Computer Science

Birmingham, AL, USA