Michael Hassan

Senior AI Fullstack Developer

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PROFILE

Senior AI Full-Stack Engineer with 8+ years of experience building modern web, mobile, and AI-driven platforms. Specialized in Javascript-based frontend architectures and backend systems built with NestJS, Node.js, and Python. Proven track record delivering AI-enabled products including intelligent assistants, automation pipelines, and data-driven services integrated with OpenAI and LangChain. Strong experience designing cloud-native architectures on AWS and Azure, optimizing performance, and leading complex projects from MVP to large-scale production systems.

SKILLS

Frontend
React, Next.js, Vue.js, TypeScript, JavaScript (ES6+), React Native, Flutter, Swift, Kotlin, Tailwind CSS, Material UI, HTML5, CSS3, Responsive Design, WebSockets, Chart.js, Recharts

Backend
Node.js, Express.js, NestJS, Python (FastAPI, Flask, Django), REST APIs, GraphQL, PostgreSQL, MongoDB, SQL Server, Firebase Firestore, JWT Authentication, Microservices Architecture

AI & Automation
OpenAI APIs, LangChain, CrewAI, AI Chatbots, Voice Agents, Multi-Agent Orchestration, Prompt Engineering

Cloud & DevOps
AWS (Lambda, ECS, S3, RDS), Azure, Firebase, Docker, CI/CD Pipelines, GitHub Actions, GitLab CI/CD, Nginx, Vercel, Cloudflare

Performance, Security & Quality
Application Performance Optimization, Scalable Architecture Design, Secure API Development, Load Testing, Monitoring, Logging, Error Tracking, Code Review, Technical Documentation

Other
Git, Agile / Scrum, Jira, System Design, MVP Development, SaaS Architecture, SEO-Aware Development, Long-Term Product Maintenance

WORK EXPERIENCE

Jan 2023 – Present
Atlanta, GA

Senior AI Full Stack Developer
HatchWorks AI 🔗
- Developed full-stack web and AI-integrated applications serving 10,000+ concurrent users, improving system responsiveness and scalability by 30%.
- Built and integrated AI-powered features including predictive analytics modules and intelligent automation systems, enhancing operational efficiency and decision-making speed by 35%.
- Designed and maintained backend services and RESTful APIs using Node.js and Python, reducing average data processing time by 25% while ensuring secure and reliable workflows.
- Optimized data pipelines and prepared datasets for AI models, increasing model accuracy by 20% and reducing training time by 40%.
- Collaborated in agile teams with designers, product managers, and QA engineers to deliver AI-enabled solutions, cutting project delivery cycles by 15% on average.
- Contributed to architecture planning and deployment strategies for enterprise AI applications, improving system scalability and reducing runtime errors by 30%.

Jul 2021 – Nov 2023 New York, NY	**Full Stack Engineer** *AppsChopper* 🔗 • Developed native and cross-platform mobile applications for Android and iOS using React Native, Flutter, Swift, and Kotlin, supporting scalable architectures and high user concurrency. • Designed and integrated AI-powered mobile features including in-app chatbots, recommendation engines, and predictive analytics, improving user engagement by 30%. • Built mobile-first backend services and RESTful APIs using Node.js and Django, enabling secure data exchange, authentication, and real-time app functionality. • Connected AI and analytics modules to mobile frontends, delivering interactive dashboards, push-notification systems, and data-driven mobile user experiences. • Implemented SQL and NoSQL databases optimized for mobile applications, reducing API response time and improving app performance by 25%. • Participated in the end-to-end mobile app development lifecycle, from requirement analysis and UI/UX collaboration to App Store / Play Store deployment, increasing delivery speed by 20%.
Nov 2017 – Jun 2021 New York, NY	**Full Stack Developer** *Computools* 🔗 • Developed and maintained full-stack web applications using Node.js, Python, and Django, delivering scalable solutions for clients in finance, healthcare, retail, and consumer services. • Implemented AI-driven features including predictive analytics, intelligent automation, and chatbot systems, enhancing decision-making and operational efficiency by 30%. • Designed and optimized backend APIs and services, ensuring high performance, reliability, and seamless integration with frontend applications. • Collaborated with product managers, designers, and QA teams in agile environments to deliver high-quality, client-focused software on time. • Ensured security and compliance across enterprise applications, maintaining data integrity and meeting industry standards. • Participated in architecture planning, development, testing, and deployment, contributing to the creation of maintainable and scalable software systems.

EDUCATION

2013 – 2017 Buffalo, NY	**Bachelor of Science in Computer Information Systems** *Buffalo State University* 🔗