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Top Skills

AI/ML: LLM Evaluation, Prompt Engineering, Claude Code, Cursor (AI Code Editor), GitHub Copilot.
Cypress
Ember.js

Michael Onyekanma

Senior Software Engineer. Lagos, Nigeria.
Nigeria

Summary

Senior Software Engineer with 7+ years of experience specializing in the intersection of full-stack development, DevOps, and LLM orchestration. Expert in TypeScript and Python, with a deep focus on AI-driven code generation, benchmarking, and agentic workflows. Extensive hands-on experience using Claude Code, Cursor, and Codex to automate complex engineering tasks. Proven track record in building scalable CI/CD pipelines and automated testing frameworks (Jest, Cypress) to evaluate and ensure the 100% reliability of model-generated code.

Experience

Trotta
Founding Software Engineer
January 2026 - Present (2 months)
San Francisco Bay Area

DigitalOcean
Senior Frontend Engineer
June 2024 - Present (1 year 9 months)
New York, United States

Andela
Software Engineer
November 2022 - Present (3 years 4 months)
New York, United States.

Google Developer Student Clubs
Software Engineer & Mentor
August 2020 - Present (5 years 7 months)
Remote

- Provided personalized mentorship to students, enhancing their problem-solving abilities by breaking

down complex projects into manageable components, which increased their confidence and clarity in tackling tasks.

- Focused on teaching students effective project planning techniques, ensuring they were well-prepared to handle real-world challenges in software development.
- Delivered hands-on sessions to teach best practices for writing maintainable and high-performance code, with an emphasis on code quality, readability, and efficiency, setting a strong foundation for professional coding standards.
- Acted as a reliable source of support, guiding students through technical difficulties and conceptual uncertainties, ensuring they felt confident and well-equipped to progress in their learning journey.
- Aimed to develop students' technical and analytical skills, preparing them for future careers in software development by providing continuous feedback and support.

Nebula.io

Senior Software Engineer

January 2023 - January 2024 (1 year 1 month)

New York, New York, United States

Instrumental in steering the front-end development of innovative web applications at Nebula.io.

- Played a key role in the development of innovative web applications at Nebula.io, focusing on both frontend and backend functionalities to deliver seamless, high-performance solutions.
- Led the creation of intuitive, user-friendly interfaces, ensuring optimal performance across various platforms by collaborating closely with UX designers and leveraging modern frontend technologies like ReactJS
- Worked in tandem with backend developers to ensure the seamless integration of APIs and services, enhancing the overall functionality and responsiveness of web applications.
- Actively contributed to sprint planning, daily stand-ups, and retrospectives within the Agile

development process, ensuring the timely delivery of features and continuous improvement of the development process.

Touchcore Africa

Software Engineer

January 2021 - October 2022 (1 year 10 months)

Lagos State, Nigeria

- Created efficient and secure RESTful APIs using Node.js and Express.js, Nest.Js, Typescript facilitating seamless backend integration and data management that enhanced the functionality and responsiveness of web applications.
- Utilized advanced backend tools such as MongoDB for database management, Redis for caching, and GraphQL for optimized data querying, ensuring efficient data handling and robust backend architecture.
- Contributed to the backend by designing and implementing a microservices architecture using Docker and Kubernetes, allowing for modular development and independent scaling of services.
- Integrated continuous integration and deployment pipelines using Jenkins and Docker, streamlining the development workflow and ensuring reliable and efficient deployments.
- Led the development of robust, scalable web applications using React, and TypeScript for the front end, employing modern programming practices to meet diverse project requirements.
- Implemented Test-Driven Development (TDD) using Jest, improving code quality, predictability, and maintainability. Specialized in state management and developing reusable frontend components using React rendering patterns and custom hooks.
- Deployed and managed backend services on AWS, leveraging services like EC2, S3, and RDS to ensure high availability, scalability, and fault tolerance for the applications.

Freelance

Software Engineer

August 2018 - July 2020 (2 years)

Remote

- Designed and developed robust backend solutions using Node.js, Express.js, Nest.Js, and TypeScript, integrating GraphQL for efficient and flexible data querying, enhancing overall application performance.

- Managed data with MongoDB and optimized performance with Redis, ensuring secure, fast, and scalable backend operations.
- Using redux for managing state
- Architected microservices-based solutions using Docker and Kubernetes, enabling independent scaling and modular development of backend services.
- Deployed applications on AWS, utilizing services such as EC2 and S3 to ensure scalability, reliability, and efficient resource management.
- Built dynamic web applications using React and TypeScript, with a focus on creating reusable, efficient components that enhance the user experience.
- Applied Test-Driven Development (TDD) principles using Jest, which improved code reliability, maintainability, and reduced the number of bugs in production.

Udacity

Software Engineer Intern

January 2018 - July 2018 (7 months)

Nigeria

- Developed dynamic web applications using ReactJS and ES6, focusing on creating reusable and efficient components to enhance user experience.
- Implemented user-friendly designs using the Material UI design system, ensuring consistency and a polished user interface across web applications.
- Gained hands-on experience with backend technologies, including Node.js and Express.js, learning to build and manage RESTful APIs to complement the frontend work.
- Employed Jest for UI testing, ensuring the reliability and quality of the user interfaces developed during the internship.
- Designed and developed reusable front-end components, promoting code reusability and maintainability across multiple projects.

Education

Madonna University Nigeria

Bachelor's degree, Electrical and Electronics Engineering · (2005 - 2010)