

Nkem Mogbo

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Professional Summary

Software Engineer with 3 years of experience designing cloud-native web applications and infrastructure. Proficient in Python, cloud tools (AWS, Docker, Terraform), CI/CD automation, and fullstack development. Built tooling & features for internal AI Runtime platform from scratch with focus on performance, observability, and cross-functional collaboration. Passionate about leveraging AI and scalable systems to solve real-world challenges

Professional Experience

CCC Intelligent Solutions

Chicago, IL, USA

Associate Software Engineer

August 2022 - January 2025

- Core Skills: Python (Flask, FastAPI), CI/CD, Terraform, AWS (SageMaker, Lambda, CloudWatch, S3, VPC, DynamoDB), Docker, Kubernetes, Github Actions, Infrastructure as Code, Mentoring, Agile, TDD, DevOps
- Engineered an AI Runtime Platform from the ground up as part of a cross-functional team, enabling scalable deployment and monitoring of 30+ machine learning models in production.
- Automated software deployment pipelines (CI/CD) for cloud-based apps using Python, Terraform, and AWS, cutting release time by 60%.
- Built Python-based APIs using Flask and FastAPI for internal Vue applications, collaborating across teams to deliver fullstack web solutions aligned with evolving product needs.
- Delivered organisation-wide tech talks and mentorship sessions focused on cloud infrastructure, automated workflows, testing strategies, and monitoring with AWS, helping upskill teammates and improve team-wide engineering practices.

CCC Intelligent Solutions

Chicago, IL, USA

AI Enablement Intern

February 2022 - August 2022

- Core Skills: Vue, JavaScript, Python (Flask, FastAPI), Docker, Kubernetes, HTML/CSS, UI/UX, Database Management, Communication, REST APIs
- Developed and delivered web applications using Vue, JavaScript, and Python frameworks (Flask, FastAPI), increasing customer engagement by 25% through effective web application development.
- Designed and deployed a Python and Vue resource management app using Flask, Docker, and Kubernetes with role-based access control, streamlining workflows and saving 100+ monthly hours.
- Collaborated with cross-functional teams to translate stakeholder requirements into fully functional front-end and back-end systems, ensuring 100% seamless integration with zero critical bugs at launch

OntoAdaptive LLC

Chicago, IL, USA

Software Engineer Intern

June 2021 - August 2021

- Core Skills: React, TypeScript, HTML/CSS, Django, SQL, GCP, Cloud Computing, Adaptability
- Built Reactjs and TypeScript UI components with a Python (Django), backend, improving app productivity by 15%.
- Spearheaded the adoption of a modern web stack (TypeScript), reducing technical debt by 20% and increasing code maintainability by 30%.
- Wrote backend views and queries using Django and SQL to support dynamic UI behavior and improve app functionality.

Education

Loyola University Chicago

August 2018 - December 2021

Bachelor's, Software Engineering