

Nkem Mogbo

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Professional Experience

CCC Intelligent Solutions

Chicago, IL, USA

Associate Software Engineer

August 2022 - January 2025

- Core Skills: Python, Terraform, AWS (SageMaker, Lambda, CloudWatch, S3, VPC), Kubernetes, Github Actions, Locust, Infrastructure as Code, Mentoring, Agile, TDD, DevOps, Microservices, Bash, PowerShell
- Developed and maintained automated systems and components, including CI/CD workflows for serverless deployments using Python, Golang, Terraform, and AWS, improving deployment speed by 60%.
- Built high-performance asynchronous test infrastructure using Python and Locust, preventing CPU race conditions and improving system monitoring by 50%.
- Maintained and optimized a Python and Terraform-based cloud infrastructure on AWS, hosting 30+ models, ensuring high availability and system stability.
- Spearheaded efforts to improve team visibility and engagement through presentations, workshops, and cross-functional meetings.
- Participated in hiring for AI Runtime Platform team and mentored interns and new-hires

AI Enablement Intern

February 2022 - August 2022

- Core Skills: Vue, JavaScript, Python (Flask, FastAPI), Containerization, HTML, API Development, UI/UX, Database Management, Communication
- Developed and delivered web applications using Vue, JavaScript, and Python, 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, MySQL, Cloud Computing, Adaptability
- Built ReactJS and TypeScript UI components with a Django, PostgreSQL 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%.
- Utilized Google Cloud Platform (GCP) for backend development and deployment.

Loyola University Chicago

Chicago, IL, USA

Research Assistant

June 2021 - August 2021

- Core Skills: Networks & Security, Data Analysis, Bash, PowerShell, Algorithm Training, Ubuntu, Research, Technical Writing, Critical Thinking
- Secured a \$1,000 research grant for a comprehensive study on the effectiveness of DNS over HTTP.
- Collected and analyzed relevant datasets to support the research hypothesis, improving the training algorithm on an Ubuntu VM.
- Authored a detailed research paper outlining the methodology and conclusive findings, demonstrating advanced analytical and documentation skills.

Education

Loyola University Chicago

August 2018 - December 2021

Bachelor's, Software Engineering