

KODILIOSE F. EMELUE

Software Engineer

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CAREER SUMMARY:

Software Engineer with experience in AWS Cloud infrastructure and success delivering innovative software solutions. Drives projects from conception to deployment, ensuring scalability, performance, and compliance. Known for a solutions-focused approach, adept at data analysis and visualization, and delivering not just code, but value to the business and its customers.

WORK EXPERIENCE:

CodeCrew

Junior Instructor | December 2024 – Present

- Instructed courses on modern web technologies including React, JavaScript, Python, and FastAPI.
- Delivered instruction and mentorship on AI/ML topics, emphasizing Retrieval-Augmented Generation.
- Authored curriculum for "Introduction to Machine Learning," covering regression analysis and fundamental ML techniques.
- Authored lecture on the Solarpunk movement tailored for budding technologists.
- Mentored students in developing full-stack projects using the MERN stack (MongoDB, Express.js, React, Node.js).
- Delivered introductory HTML, CSS, and JavaScript workshops to middle school students at career interest events, demonstrating the ability to teach technical content effectively to non-technical audiences.
- Supervised Technical Assistants in grading assignments, creating coding exercises, and coaching students, demonstrating strong project management and coordination skills.

Technical Assistant | August 2024 – December 2024

- Authored JavaScript-based assignments and instructional materials.
- Provided comprehensive feedback on student projects, tracked attendance, and supported students.

Project Coordinator PH-IDEAS | May 2024 – August 2024

- Coordinated with partners and guest lecturers for specialized training sessions.
- Provided guidance on student projects in Django, Python, JavaScript, data analysis, HTML, and CSS.
- Managed administrative tasks, including attendance tracking and assignment reviews.

Capital One

Software Engineer | December 2024 – Present

- Managed Infrastructure as Code (IaC) and supported finance data analyst teams.
- Developed an automated AWS-based dashboard for cybersecurity compliance, significantly reducing manual oversight.
- Maintained and improved CI/CD pipelines; contributed to full-stack feature development for cloud-based web applications.
- Used Scala, Spark, Python, and SQL for ETL and data visualization tasks, improving compliance and reporting efficiency across 57 cloud applications.
- Practiced Agile methodologies to ensure timely delivery of software projects.

Associate, Software Engineer in Training | August 2024 – December 2024

- Authored JavaScript-based assignments and instructional materials.
- Provided comprehensive feedback on student projects, tracked attendance, and supported students.

RELEVANT PROJECTS:

HackMemphis Fall 2024 Civics Hackathon Participant

- Developed a FastAPI backend for "Blight Bounties" a civic-tech web application enabling Memphis citizens to address urban blight efficiently.

EDUCATION:

2015 – 2019 | Washington University in St. Louis

Bachelor of Arts in Economics

CERTIFICATIONS:

- AWS Certified Solutions Architect – Associate

SKILLS:

- **Programming Languages:** Python, JavaScript, Scala, SQL, HTML, CSS
- **Frameworks & Libraries:** React, Angular, Django, FastAPI, Node.js, Express, MERN stack, Spark
- **Cloud & DevOps:** AWS (QuickSight, EC2, S3, Lambda, CloudFormation), Infrastructure as Code (IaC), CI/CD pipelines
- **Methodologies:** Agile, Scrum, MVC architecture, RESTful API design
- **Data Tools & Techniques:** ETL pipelines, Data Visualization, Machine Learning fundamentals, Retrieval-Augmented Generation

COMMUNITY INVOLVEMENT:

- LaunchCode Virtual Mock Interview Volunteer
- GiveCamp Memphis 2024 Participant
- Active participant and contributor in civic tech hackathons, community education initiatives, and volunteer mentoring programs.