

CHUKWUDI IKEM

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PROFILE

Motivated software engineer with a strong foundation in computer science, specializing in tool development, data handling, and process optimization. Proven ability to enhance development efficiency and reliability through innovative solutions. Graduated with honors and recognized for excellence and community contributions

SKILLS

- Programming Languages: JavaScript (ES5+), C++, Python
- Software Development: OOP, Algorithms, Data Structures, Full-Stack Development
- Machine Learning & AI: TensorFlow, Keras, PyTorch
- Web Development: React, Redux, HTML5, CSS3, Semantic UI, Node.js, Express.js, FastAPI, Flask
- Data Management & Collaboration: PostgreSQL, Redis, JSON, Git, CI/CD

EDUCATION

University of Southern California Los Angeles, CA  
Master of Science in Computer Science August 2023-Present

California State University - Fullerton Fullerton, CA  
Bachelor of Science in Computer Science August 2017-May 2022

- GPA: 3.7/4.0
- Relevant course work: Software Engineering, Artificial Intelligence, Algorithms, Object-Oriented Programming, Data Structures

TECHNICAL TRAINING

Fullstack Academy New York, CA  
Software Engineering Immersive May 2021-September 2021

- Completed an immersive software engineering program, mastering full-stack development and gaining proficiency in end-to-end software solutions through collaborative projects

EXPERIENCE

IBM Yorktown Heights, NY  
Research Software Engineer Intern May 2024-August 2024

- Develop a PyTorch testing kit for datasets, improving dataset consistency checks for over 10 million data samples by implementing efficient hashing and serialization techniques
- Integrated a Python package to revise JSON serialization speed by 45%, enhancing the efficiency of dataset validation
- Collaborate with a team of 20+ engineers and researchers, contributing to the streamlined development of a large-scale foundation model operated in high-impact AI research projects

Personal Projects Elk Grove, CA  
Software Engineer August 2021-May 2024

- Engineered a microservice backend for a word game, ensuring high availability with Python, FastAPI, and Traefik
- Developed an image classifier with TensorFlow and Keras, utilizing neural networks (CNNs) for precise image recognition
- Created "Chatterly," a web-based chat platform with real-time interactions using React, Socket.io, and Node.js
- Co-developed "DinoGuys," a 2D battle royale game, integrating multiplayer features with Phaser3, Node.js, and Express
- Built and deployed a personal website ([www.chukwudiikem.com](http://www.chukwudiikem.com)) with React, Express, and Nginx on Google Cloud Platform

iDTech Camps Elk Grove, CA  
Coding Instructor March 2023-August 2023

- Led students through interactive Python coding projects, teaching application development, game creation, and task automation
- Ignited enthusiasm for web development, facilitating the construction of responsive websites using HTML, CSS, and JavaScript

LEADERSHIP

National Society of Black Engineers Student Chapter Fullerton, CA  
DEI Representative January 2021-January 2022

- Facilitated DEI initiatives and improved retention strategies as DEI Representative for the National Society of Black Engineers Student Chapter