Dalu Okonkwo

Philadelphia, PA | chukdals@gmail.com | daluokonkwo.com

EDUCATION

Drexel University   **Philadelphia, PA**
Bachelor of Science in Computer Science   *Expected Graduation - June 2026*
Relevant Coursework: Computing & Informatics Design 101, 102 and 103, Calculus I, II and III, Advanced Computer Programming I & II, Data Structures & Algorithms
Clubs: Drexel AI, Drexel Computational Design

WORK EXPERIENCE

Amazon Web Services   **New York, NY**
Software Developer Engineer Intern   *June 2024- August 2024*
- Developed a robust interface using LLMs and agents, enabling users to query financial data with natural language and automatically generate visualization from the data.
- Built a full-stack web application integrating AWS services with frontend technologies, delivering a seamless experience for querying and visualizing financial data
- Enhanced visualization accuracy through research and implementation of advanced LLM techniques (multi-shot prompting, self-refinement), significantly improving data interpretation capabilities.

PowerPay   **Philadelphia, PA**
Full-Stack Developer Intern   *April 2024- June 2024*
- Engineered responsive frontend features and bug fixes using Next.js, enhancing user interface functionality and improving customer experience across the platform.
- Developed secure API routes using Node.js for handling sensitive data, implementing robust error handling and data validation protocols.
- Integrated Plaid API and implemented AWS Lambda functions to securely retrieve, process, and store sensitive financial information, ensuring compliance with data security standards.

Amazon Web Services   **New York, NY**
Software Developer Engineer Intern   *May 2023- September 2023*
- Accomplished the design and implementation of an API to extract customer journey data, resulting in insights into user behavior and workflows for the internal team.
- Utilized React and AWS Cloudscape to develop an intuitive interface, elevating data query capabilities and boosting user experience analysis by 25%.
- Integrated the API with the internal tool for seamless data querying and visualization, leading to a significant enhancement in the team's ability to understand and improve user workflow.

PROJECTS

Reech   **Philadelphia, PA**
Supabase, Flutter, Dart, SQLite, AI/ML   *Present*
- Architected a scalable fitness platform with PostgreSQL and Supabase, implementing complex data relationships between users, workouts, and social features while ensuring secure authentication
- Engineered offline-first architecture with sync service handling data consistency, conflict resolution, and state management across mobile and cloud, enabling seamless user experience during poor connectivity

Meddibia | Devpost Link   **Philadelphia, PA**
Python, Flutter, AI/ML   *March 2023*
- Worked on the creation of MEDDIBIA, an AI-integrated healthcare app tailored for underserved community decision-making, securing victory in the competition.
- Engineered machine learning models that diagnosed skin conditions with 70% accuracy and diseases with 87% precision.

TECHNICAL SKILLS & INTERESTS

Programming Languages: Java, JavaScript, TypeScript, Python, Dart, C
Full-Stack: React.js, Next.js, Flutter, Node.js, APIs (Rest & GraphQL)
Cloud Infrastructure: Docker, AWS, Supabase, Firebase
AI & ML: LLMs, OpenCV, MediaPipe, Hugging Face
Testing: Jest, Cypress, JUnit, Postman, Version Control (Git/GitHub)
Interests & Activities: Indie hacking, ML Research, Music Production, Soccer