Kwaku Ofosu-Tuffour

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EDUCATION & ACHIEVEMENTS

College of William and Mary   **May 2024**
Bachelor's of Science: Computer Science & Mathematics   **GPA:** 3.7

Relevant Courses: Software Development, Software Engineering, Databases, Data Structures, Algorithms, Data Mining, Linear Algebra, Statistics, Numerical Analysis
Awards and Honors: William & Mary Scholar, Monroe Scholar, Magna Cum Laude, Dean's List, Tribehacks IV Winner

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, Java, C++
- **Front–End Developmen**t: HTML/CSS, React, React Native, Angular, Android Studio, Bootstrap
- **Back–End Development:** Django, Flask, Node.js
- **Data Management:** SQL, PostgreSQL, MongoDB, Microsoft Office
- **Other Skills/Software:** AWS (EC2, RDS, Route 53), Eclipse, LaTeX, French (Intermediate), Agile
- **Certifications:** AWS Certified Cloud Practitioner

PROFESSIONAL EXPERIENCE

Jr. AI/ML Software Developer | Paradyme   **June 2024 - Current**
- Worked in collaboration with C3.AI to design, develop, and maintain technical AI solutions
- Build and improve tools for users to understand and analyze large-scale data
- Performed debugging, modifications, and testing of software using JavaScript (React), Python, and Java

Software Developer Assistant | AidData at William and Mary Global Research Institute   **May 2024 - Current**
- Worked in collaboration with William and Mary's Global Research Institute Finance team with their Foreign Development Finance Team
- Managed internal websites built with Java, Backbone, and Node.js, along with PostgreSQL and MongoDB databases

Data Analytics Intern | Chesterfield County IST   **May 2023 – August 2023**
- Used Microsoft Azure Studio to develop SQL queries, conducted data analysis, and detected discrepancies within database schemas spanning various divisions within Chesterfield County's Department of Human Resources, aiming to improve operational effectiveness and streamline resource distribution

PROJECTS

H2H | College-Based Market Application | React Native | Django | Amazon Web Services
- Lead developer within a team that is developing a full-stack mobile application tailored for William & Mary students, facilitating the buying and selling of products among peers.
- Uses React Native for the frontend framework and Django, equipped with a REST API, for the backend framework. Django backend, hosted on Amazon EC2, seamlessly communicates with the Postgres database, which is hosted on Amazon RDS.

Rationales Visualization Tool | React | Flask
- Collaborated with a team to develop a website designed to visualize the results generated by a Neural Code Model (NCM) and transformed it into a dynamic web interface leveraging the React.js framework.

Anime Versus Web Application | Angular | Flask | Heroku
- User ranking of anime characters based off of head-to-head battles visualized by web-scraped fandom images. Uses Angular as the front-end framework to present data to the user, and Flask equipped with a REST API as the back-end framework to distribute data. Flask API hosted on Heroku, and Angular app on Github Pages.

Android Maze Game | Java | Android Studio
- Created a maze game employing agile software development principles, coded in Java within both Android Studio and Eclipse.
- Developed using Java Object-Oriented programming techniques throughout the development process.

Personal Website | React | Bootstrap
- Developed a React web application providing detailed insights into the projects I've developed.