Godsfavour Kio

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EDUCATION

University of Waterloo — Waterloo, ON
Master of Mathematics in Computer Science. CGPA: 94.75% — *May. 2023 – Dec. 2024*

Valley View University — Accra, Ghana
Bachelor of Science in Computer Science — *Sep. 2017 – Dec. 2021*

EXPERIENCE

University of Waterloo — Waterloo, ON
Graduate Research Assistant — *May 2023 – Present*

- **Advancing AI in Code Evaluation**: Leading a research project to develop a comprehensive dataset and evaluation framework for AI-based code evaluation models. **Aiming to enhance the benchmarking process for AI agents in software engineering, ultimately improving model accuracy and reliability.**
- **Innovative Data Mining and Preprocessing**: Designing and implementing efficient Python scripts to extract and preprocess data from over 200 task instances across 5 major GitHub repositories. Streamlining data preparation by 40%, enriching the dataset used for training and evaluating LLMs.
- **Automation of Testing Pipelines**: Creating automated, reproducible environments using Docker and Python to facilitate testing across multiple repository states. Reducing manual setup time by 60% and increasing testing efficiency, ensuring consistent and reliable evaluation of various AI model versions.

University of Waterloo — Waterloo, ON
Teaching Assistant in Computer Science — *May 2023 – Present*

- **Technical Assistance**: Provide programming support for software engineering and mobile development courses (CS446 and CS346), assisting over 100 students with assignments and projects.
- **Communication and Collaboration**: Communicate effectively with students and instructors via email, forums (e.g., Piazza), and in-person meetings, addressing inquiries and providing timely feedback. Collaborate with course staff to plan and execute tutorials, labs, and exams.
- **Teamwork and Leadership**: Work closely with course instructors and fellow TAs to develop course materials, lead tutorials, and coordinate grading. Take on leadership responsibilities, including proctoring exams and mentoring new TAs.

Software Engineer - Mobile — Mar 2022 – Apr 2023
Nsano Ltd — *North Legon, Ghana*

- **Pamo v2 App (Flutter)**: Spearheaded the development of Pamo v2, a mobile commerce platform built with Flutter that **scaled to over 100k downloads in its first year.** Implemented MVVM architecture for improved maintainability and scalability, collaborating with backend engineers to enhance performance.
- **RESTful API Integration**: Integrated RESTful APIs using Dart in close collaboration with backend engineers, significantly improving the app's performance and reliability. Delivered a seamless and responsive user experience across devices by working closely with UI/UX designers.
- **Pamo Delivery App (Flutter with Google Maps API)**: Led the development of an internal delivery app using Flutter, leveraging Google Maps API for real-time tracking and route optimization. Enhanced delivery operations through advanced location services and backend synchronization, ensuring high performance and minimal downtime.

PROJECTS

- **VVUSA (Valley View University Student Life App)**: Developed a comprehensive Android application to enhance the student-life experience at Valley View University, impacting over 3,000 students. Built a mobile-based campus management system and a virtual marketplace using Java, Android Studio, and Firebase, streamlining campus services by 30%. Implemented QR code generation and optimized data handling with RecyclerView, improving app responsiveness and user engagement.
- **YouRead (In Progress)**: Designing and developing **YouRead**, a cross-platform mobile application for reading books and providing a platform for lesser-known authors to share their works. Leveraging **Jetpack Compose**, **SwiftUI**, and **Firebase** for development. Focusing on creating an intuitive UI with responsive design, aiming to reach a user base of over 1000 readers within the first year.

Technical Skills

- **Programming Languages**: Kotlin, Swift, Dart, Java, Python, JavaScript, TypeScript

- **Mobile Development Frameworks**: Jetpack Compose, SwiftUI, Flutter

- **Tools and IDEs**: Android Studio, Xcode, VS Code, Git

- **Backend and Databases**: Firebase, SQL, ExpressJS, Node.js

- **Web Technologies**: Next.js, Bootstrap, Tailwind CSS, ASP.NET

- **AI**: Anaconda, Jupyter Notebook, Pandas, LLMs, Huggingface

Leadership & Extracurricular Activities

- **Valley View University** — Ghana
  President, Computing Science Students' Association (CoSSA) — *Fall 2020 – Spring 2021*
  - **Team Leadership**: Organized and led a team of 15 members to plan and execute tech seminars and workshops, increasing student participation by 50%.
  - **Hackathon Founder**: Founded and organized the inaugural Valley View University Technology Innovation Challenge, a hackathon themed 'Solving Global Problems Using Technology.' Challenged students to build systems that address real-world issues, with 10 participants in various disciplines. YouTube Link
  - **Industry Collaboration**: Facilitated collaboration with industry professionals for guest lectures, enhancing networking opportunities for students.

- **Valley View University** — Ghana
  Student Representative, Graduation Ceremony — *Spring 2021*
  - **Public Speaking**: Delivered the response to the Vice Chancellor's charge at the 2021 graduation ceremony, representing over 1,000 graduating students.
  - **Leadership Skills**: Demonstrated strong public speaking and leadership skills in addressing a large audience.