Dorian Taponzing Donfack

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EDUCATION

Kennesaw State University   May 2025 | Kennesaw, GA
Bachelor of Science in Computer Science

Coursework: Programming and Problem Solving, Object-Oriented Programming, Data Structures and Algorithms, Computer Architecture, Artificial Intelligence, Parallel and Distributed Systems.

Organizations: National Society of Black Engineers (NSBE), ColorStack.

TECHNICAL SKILLS

Java, Python, JavaScript, HTML/CSS, React, Node.js, MySQL, AWS, Firebase, Supabase, Git, GitHub, Postman, Jenkins, Junit, React Native

PROFESSIONAL EXPERIENCE

Software Development Intern, Afriland First Bank   May 2023 – August 2023
- Engineered a high-performance microservice for real-time transaction notifications using **Spring Boot** and **MySQL**, implementing efficient data structures to optimize query performance.
- Integrated **Firebase Cloud Messaging (FCM)** for real-time push notifications, achieving a 99.1% message delivery success rate through robust error handling and retry mechanisms.
- Implemented asynchronous message processing with **RabbitMQ**, enabling the system to handle 10,000+ transactions per minute and reducing server load by 18% during peak times.

Software Engineer Intern, MK World Business   June 2022 – August 2022
- Developed cross-platform mobile application components using **React Native** and **JavaScript**, unifying iOS and Android development and reducing time-to-market by 30%.
- Created responsive and intuitive user interfaces using modern UI/UX principles, resulting in a 15% increase in user engagement metrics.
- Implemented CI/CD pipeline with **Jenkins** to automate testing and deployment processes, reducing deployment time by 70% and enabling rapid iterative development.

PROJECTS

Redis Server (Java)
- Designed a high-performance in-memory key-value store in **Java** using optimized data structures (HashMap), reducing lookup times by 40% compared to file-based storage.
- Implemented concurrent server architecture using **Java's Socket** class and threading models, processing up to 3,000 commands per second.
- Leveraged **Java's ExecutorService** and **ThreadPoolExecutor** to efficiently manage thread resources, handling 500+ concurrent client connections with minimal overhead.

Campus AI Companion (React Native | Node.js)
- Created a full-stack mobile application using **React Native** frontend and **Node.js** backend services, reducing development time by 25%.
- Enabled secure user authentication and real-time data sync using **Firebase**, improving user login reliability and app responsiveness by 30%**.**
- Integrated **OpenAI's API** and engineered prompts to deliver tailored academic guidance, increasing user engagement and retention during pilot testing.
- Applied responsive design principles to ensure consistent user experience across different device sizes and platforms.

Food Ordering System (Java | JavaFX | MySQL)
- Developed a comprehensive food ordering application with **Java** and **JavaFX**, implementing MVC architecture for maintainable and scalable code.
- Designed and implemented a relational database schema using **MySQL** to efficiently store and retrieve order data, optimizing query performance.
- Practiced Agile methodologies with sprint planning and iterative development, increasing team productivity by 10%.

AWARDS & HONORS

- **President's List Fall 2024,** Kennesaw State University
- **President's List Spring 2024,** Kennesaw State University