DUC NGUYEN - M.S

(949) 372-9122 - ducnrg@gmail.com - Github - LinkedIn

EXPERIENCE

Android Developer | Walmart - Global Tech | CA, USA   Dec 2023 - Present

- Played a key role in developing Walmart's high-traffic local marketplace platform (Kotlin, Java, GraphQL), contributing to complex feature integration and **UX/UI collaboration** for an intuitive user experience; this platform is projected for **$1B+ annual revenue**.
- Instrumental in **optimizing memory management** to achieve significant app performance gains, reducing crashes by **40%** and enhancing responsiveness, critical for user satisfaction across diverse Android devices.
- Engineered and implemented key aspects of a **modular, clean architecture** for new app functionalities, contributing to a **20% reduction in development time** and improving scalability for features like media integration and AI-driven capabilities.
- Actively contributed to establishing comprehensive automated testing protocols, resulting in a **30% decrease in post-release bugs** and boosting overall app **stability and reliability** on a large scale.
- Collaborated closely with UX/UI designers to implement a user-centric new design, which contributed to a **15% improvement in user satisfaction scores** and enabled seamless control of app functionalities.

Software Developer Intern | BMW of North America LLC | NJ, USA   Sep 2022 - Mar 2023

- Developed a key back-end system for dealer part requests; transitioned services from Spring MVC to Quarkus, significantly **reducing AWS Lambda cold start times by 50%**.
- Executed migration of mainframe DB2 to Oracle SQL & Salesforce, achieving **$50K annual savings** in API costs and improving data accessibility.
- Optimized an RPA bot (UiPath) for **$500K in operational cost savings**; built a monitoring service (Angular, Spring MVC) and implemented CI/CD (Jenkins), enhancing system reliability.

Software Engineer Intern | HATCHANDO LTD | Remote   May 2021 - Aug 2021

- Maintained and enhanced Windows MS SQL database applications, focusing on improving data integrity and system performance for internal tools.

PROJECTS

EasyChef (AI-Powered Recipe Generator)
- Developed an AI recipe generator (Python, Flask, TensorFlow, Hugging Face) processing user input via a web UI; explored efficient model deployment considerations for responsive user-facing applications.

Movie Recommendation System (Scalable Media Platform)
- Built a scalable movie recommendation system (PySpark, Hadoop, Flask/CherryPy), handling large media metadata sets and focusing on efficient data processing for timely, personalized recommendations.

EDUCATION

Rutgers University:
- **Master of Science** in Software Engineering   May 2023
- **Bachelor of Science** in Computer Engineering   May 2021

LANGUAGES AND TECHNOLOGY

- JavaScript, Firebase, MongoDB, Node.js, Python, HTML, CSS, JUnit5, Hadoop, R, Scala, Linx, Git / Github, C++, C, MySQL, Python, Java, React, Spring MVC, Quarkus, Kotlin