Faridah Akinotcho
Software Engineer

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Education

University of British Columbia (UBC) – Master of Applied Science in Computer Engineering   May 2024
- GPA: 4.0/4.0 (87.5/100)
- Publications: "ARDiff: scaling program equivalence checking via iterative abstraction and refinement of common code", ESEC/FSE 2020

Paris Diderot University (P7) – Bachelor of Science in Computer Science   Jul 2019

Paris Diderot University (P7) – Bachelor of Science in Mathematics   Jul 2019

Experience

Mobile Software Reliability Research Assistant, UBC – Vancouver, Canada   May 2021 – May 2024
- Reverse-engineered top commercial Android apps and refined UI testing tools, improving testing and security analysis by uncovering key challenges preventing 70% app coverage.
- Streamlined report building and trend analytics through Python and shell automation scripts, cutting experimentation time by 90% and optimizing UI testing methodologies.

Software Engineering Teaching Assistant, UBC – Vancouver, Canada   Sept 2020 – Dec 2023
- Created and delivered tutorials on key technologies like HTTP protocols, REST, databases, and cloud VMs and deployment, enhancing students' practical knowledge and skills.
- Supervised and mentored students in designing, developing and maintaining Android apps with RESTful back-ends, resulting in 3 out of 7 teams ranked in the top 5 out of 20 in project evaluations.

Software Engineering Intern, Texavie Technologies Inc. – Vancouver, Canada   Sept 2020 – Apr 2021
- Guided conception of telehealth app ecosystem, including a WPF .NET desktop app, MERN web app, and iOS app for interactive therapy sessions in Agile bi-weekly sprints.
- Integrated streaming pipeline built with Apache Kafka, Spark and IoT Hub, for real-time feedback to users.
- Collaborated with UX designers and product managers to engage users through gamification and VR in Unity, and create demos for shareholders.
- Coordinated Azure cloud migration and improved team collaboration through CI/CD processes with GitHub Actions and Jira task planning, resulting in 3x more completed tasks per sprint.

Software Quality Research Assistant, UBC – Vancouver, Canada   Sept 2019 – Nov 2020
- Enhanced equivalence checking for Java programs, boosting effectiveness and efficiency by 20% through advanced symbolic execution and static code analysis techniques.
- Implemented three innovative quality assurance approaches, publishing and presenting research at a top software engineering conference with a 28% acceptance rate.

Skills

Programming: Java, C, C#, Python3, Kotlin, Swift, Shell Scripting
Frameworks: ReactJS, React Native, Express, Jest, UIAutomator, JUnit, Espresso
Tools: Git, Docker, Ant, Gradle, Maven, Jira
Web: HTML/HTML5, CSS/CSS3, Node.js, JavaScript, PHP
Databases: MongoDB, MySQL, PostgreSQL
Languages: Fluent in English and French, Conversational in Korean