

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
- Publications: “Mobile Application Coverage: The 30% Curse and Ways Forward”, ICSE 2025

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

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

Experience

Software Reliability Research Assistant, UBC – Vancouver, Canada May 2021 – May 2024

- Reverse-engineered top commercial Android apps and refined UI testing tools to uncover key challenges preventing 70% app coverage for testing and security analysis.
- Standardized UI testing process, report generation and trends extraction with Python and shell automation scripts, cutting experimentation time by 90%.

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, documenting 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 Assurance 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, Shell Scripting

Frameworks: ReactJS, 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