Nimmi R. Weeraddana
Curriculum Vitae

Calgary, AB, Canada
nimmi.weeraddana@ucalgary.ca
linkedin.com/in/nimmi-rashinika
+1 778 677 8607

SUMMARY

- Proven Track Record of **Research Publications**: Throughout my research career, I have consistently demonstrated a strong commitment to research, with numerous publications in premier software engineering journals and conferences (see **FSE'24, TSE'24, and EMSE'23** in *Publications* section).
- Proven Track Record of **Student Mentorship**: Over the past three years, I have mentored two MSc students and an Undergraduate Research Assistant, resulting in one of our papers being published (see **MSR'24** in *Publications* section) with another paper currently under review (see **S1** in *Publications* section).
- Proven Track Record of **Industry Research**: Over the past two years, I have been actively involved in industry research with Ubisoft Toronto, resulting in a publication in a premier software engineering conference (**ICSE-SEIP'25** in *Publications* section).

PUBLICATIONS

Journal Papers

TSE'24. Weeraddana NR, Alfadel M, McIntosh S. Characterizing Timeout Builds in Continuous Integration. *Transactions on Software Engineering*, vol 50(6), 2024.

EMSE'23. Weeraddana NR, Xu X, Alfadel M, McIntosh S, Nagappan M. An Empirical Comparison of Ethnic and Gender Diversity of DevOps and non-DevOps Contributions to Open-Source Projects. *Empirical Software Engineering*, vol 28(6), 2023.

Full-Length Conference Papers

ICSE-SEIP'25. Weeraddana NR, Habchi S, McIntosh S. Crash Report Prioritization for Large-Scale Scheduled Launches. *International Conference on Software Engineering: Software Engineering in Practice*, 2025.

FSE'24. Weeraddana NR, Alfadel M, McIntosh S. Dependency-Induced Waste in Continuous Integration: An Empirical Study of Unused Dependencies in the npm Ecosystem. *International Symposium on the Foundations of Software Engineering*, 2024.

MSR'24. Kola-Olawuyi A, Weeraddana NR, Nagappan M. The Impact of Code Ownership of DevOps Artefacts on the Outcome of DevOps CI Builds. *International Conference on Mining Software Repositories*, 2024.

Short Conference Papers

ICSE-DS'25. Weeraddana NR. Mitigating Waste That Tacitly Accrues in Continuous Integration Pipelines. *International Conference on Software Engineering: Doctoral Symposium,* 2025

Papers Under Submission

S1. Valunjkar P, Weeraddana NR, Nagappan M. Software Project Characteristics that Impact the Success Rate of Continuous Integration Builds (The venue is removed to preserve anonymity).

Thesis

PhD. Tacit Inefficiencies and Barriers in Continuous Integration, PhD Thesis, 2025.
MSc. A qualitative study: How Solution Snippets are Presented in Stack Overflow and How those Solution Snippets Need to be Adapted for Reuse. MSc Thesis, 2022.

TRAINEES MENTORSHIP

Degree	Name	Period	Co-authored papers
MSc	Ajiromola Kola-Olawuyi	Sep 2022 – Apr 2024	**MSR'24**
MSc	Wen Cui	May 2024 – Present	
BSc	Preeti Valunjkar	Jan 2024 – Present	**S1**

TEACHING EXPERIENCE

Teaching Assistant at University of Waterloo, Canada

CS 348 Introduction to Database Management: Graded quizzes, assignments, and exams; Offered one-on-one assistance to students through office hours and email consultations.

CS 338 Computer Applications in Business: Mentored project groups through the software development lifecycle, from requirement gathering to delivering a software solution; Evaluated project deliverables.

CS 116 Introduction to Computer Science 2: Graded quizzes, assignments, and exams.

Teaching Assistant at University of Victoria, Canada

CSC 370 Database Systems: Managed TAs, in particular, allocated assignments and grading responsibilities to other TAs; Created evaluation materials (e.g., designed quizzes and grading scheme); Graded quizzes, assignments, and exams; Offered one-on-one assistance to students through office hours.

SERVICE ROLES

Journal Reviewer — **TOSEM.** Transactions on Software Engineering and Methodology.

Student Volunteer — **ICSE'25.** International Conference on Software Engineering 2025.

Shadow PC — **MSR'25.** International Conference on Mining Software Repositories, 2025.

Student Volunteer — **FSE'24.** International Symposium on the Foundations of Software Engineering 2024.

Co-reviewer — **FSE'23.** International Symposium on the Foundations of Software Engineering 2023.

AWARDS

Cotton Family Women in Mathematics Graduate Scholarship. Awarded CDN $3,200 in recognition of prior academic excellence in 2024.

University of Waterloo International Doctoral Student Award. Awarded CDN $15,420 per year for four years.

ACM SIGSOFT CAPS Award. Awarded US $500 USD and US $1000 in April 2024 and February 2024, respectively, to participate in in-person conferences.

Graduate Student Research Dissemination Award. Awarded CDN $500 to participate in in-person conferences in 2024.

Upper Bound Talent Bursary - North America. Awarded CDN $1500 to participate in the Upper Bound AI conference in 2023.

University of Waterloo Doctoral Entrance Award. Awarded CDN $5,000 in recognition of prior academic excellence in 2022.

University of Victoria Graduate Award. Awarded CDN $1,500, CDN $1,500 CDN, and CDN $5,000 in 2022, 2021, and 2020, respectively, based on the recommendation from the Department of Computer Science for academic excellence.

University of Moratuwa Dean's List Recognition. Awarded in all four years of undergraduate studies for maintaining a GPA of 3.80 or above (out of 4.20).

EMPLOYMENT

University of Calgary ucalgary.ca	**Assistant Professor** Research and teaching	Jul 2025 – Present
Ubisoft Toronto, Canada ubisoft.com	**Research & Development Intern** Research on enhancing a game crash impact detection, focusing on improving the quality assurance of gaming applications; recently submitted a research paper based on this work (ICSE-SEIP'25 in *Publications* section).	May 2023 – Dec 2024
BooleanLabs, Sri Lanka booleanlabs.biz	**Data Science Engineer** Developed a real-time intelligent log analysis and risk prediction system; implemented a predictive model for server breakdowns.	Mar 2019 – Dec 2019
99X Technology, Sri Lanka 99x.io	**Software Engineer** Worked on an electronic data interchange and e-invoice approval system; developed an XML log file anonymizer to create anonymized test data for testers.	Jul 2018 – Feb 2019

EDUCATION

University of Waterloo, Canada	PhD in Computer Science	May 2022 – Jun 2025
University of Victoria, Canada	MSc in Computer Science	Jan 2020 – Apr 2022
University of Moratuwa, Sri Lanka	BSc in Information Technology	Mar 2014 – Jun 2018