Ahsun Tariq

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Education

Oregon State University — Corvallis, OR
Ph.D. in Computer Science, GPA 3.85/4.00 — *June 2022 – Sep. 2025*

Washington State University — Pullman, WA
Ph.D. in Computer Science, GPA 4.00/4.00 — *Mar. 2020 – June 2022*
Continued at Oregon State University when lab relocated in June 2022

University of Edinburgh — Edinburgh, UK
M.Sc. in Artificial Intelligence, Merit — *Sep. 2017 – Nov. 2018*

N.E.D University of Engineering and Technology — Karachi, Pakistan
B.E. in Computer and Information Systems, GPA 3.81/4.00 — *Jan. 2012 – Mar. 2016*

Research

Oregon State University — June 2022 – Present
Graduate Research Assistant – Software Engineering Education, Analytics and Assessments Lab — *Corvallis, OR*

- Examined systematic and metacognitive challenges in student software development teams, including reflection, inequality of contributions, and communication patterns.
- Executed interventions to enhance software engineering education, critical thinking and teamwork.
- Presented notable findings at prominent software engineering forums, including ICSE, ICER, and SIGCSE, under NSF funded scholarship on improving undergraduate STEM education.
- Led award-winning research in collaboration with senior faculty while mentoring undergraduate researchers.

Washington State University — Mar. 2020 – June 2022
Graduate Research Assistant – Human Centered Environments for Learning and Programming — *Pullman, WA*

- Collaborated with cross-functional teams across 3 universities to analyze large datasets spanning 30+ teams and 100+ developers, identifying key patterns and insights to optimize agile software development processes.
- Built LMS features to monitor repository artifacts and analyze user engagement.

University of Edinburgh — June 2018 – Aug. 2018
Summer Project Software Developer – Center for Discovery Brain Sciences — *Edinburgh, UK*

- Built, tested and deployed a news-curation platform to measure news accuracy and understand media literacy in digital environments.

Teaching

Oregon State University — June 2025 – Sep. 2025
Graduate Teaching Assistant – Free and Open Source Software (FOSS) — *Corvallis, OR*

- Supported students in understanding software licensing in open-source and proprietary projects, and guided them in navigating and contributing to open-source communities.

Washington State University — Aug. 2021 – Dec. 2021
Graduate Teaching Assistant – Web Development — *Pullman, WA*

- Provided technical support in software development to a class of 70 students, with a 93% International Teaching Assessment score.

Awards

Best Paper Award – ACM SIGCSE Technical Symposium 2025 — *Pittsburgh, PA*
Outstanding Achievement Award – Oregon State University 2025 — *Corvallis, OR*
Scotland Saltire Scholarship Award – University of Edinburgh — *Edinburgh, UK*

Programming Languages

Python, JavaScript, Java, C/C++, PHP

Publications

[1] Ahsun Tariq, Phillip Conrad, Christopher Hundhausen, Andrew Yu, and Yunhan Qiao. "A Retrospective-Based Intervention to Improve Equality of Contributions in Undergraduate Team Projects: A Quasi-Experimental Study". In: *Proceedings of the 48th International Conference on Software Engineering: Software Engineering Education and Training*. Manuscript under review. 2026.

[2] Ahsun Tariq, Christopher Hundhausen, Phillip Conrad, and Andrew Yu. "Enhancing Agile Retrospectives: Extended Insights on Practices, Reflection Quality, and Team Experiences". In: *ACM Transactions on Computing Education* (2026). Manuscript under review.

[3] Md Istiak Hossain Shihab, Christopher Hundhausen, Ahsun Tariq, Summit Haque, Yunhan Qiao, and Brian Wise Mulanda. "The Effects of GitHub Copilot on Computing Students' Programming Effectiveness, Efficiency, and Processes in Brownfield Coding Tasks". In: *Proceedings of the 2025 ACM Conference on International Computing Education Research, Vol. 1*. 2025, pp. 407–420.

[4] Ahsun Tariq, Phillip Conrad, Christopher Hundhausen, Andrew Yu, and Olusola Adesope. "Improving Agile Retrospectives through Metacognitive Scaffolding". In: *Proceedings of the 56th ACM Technical Symposium on Computer Science Education, Vol. 1*. 2025, pp. 1106–1112.

[5] Christopher Hundhausen, Phillip Conrad, Ahsun Tariq, Surya Pugal, and Brian Zamora Flores. "An Empirical Study of the Content and Quality of Sprint Retrospectives in Undergraduate Team Software Projects". In: *Proceedings of the 46th International Conference on Software Engineering: Software Engineering Education and Training*. 2024, pp. 104–114.

[6] Christopher Hundhausen, Phillip Conrad, Olusola Adesope, and Ahsun Tariq. "Combining GitHub, Chat, and Peer Evaluation Data to Assess Individual Contributions to Team Software Development Projects". In: *ACM Transactions on Computing Education* 23.3 (2023), pp. 1–23.

[7] Christopher Hundhausen, Phillip Conrad, Olusola Adesope, Ahsun Tariq, Samir Sbai, and Andrew Lu. "Investigating Reflection in Undergraduate Software Development Teams: An Analysis of Online Chat Transcripts". In: *Proceedings of the 54th ACM Technical Symposium on Computer Science Education, Vol. 1*. 2023, pp. 743–749.

[8] Ahsun Tariq. "Metacognitive Scaffolding to Leverage Decision Making in Software Engineering Education". In: *Proceedings of the 2023 ACM Conference on International Computing Education Research, Volume 2*. Doctoral Consortium Paper. 2023, pp. 127–129.

[9] Christopher Hundhausen, Adam Carter, Phillip Conrad, Ahsun Tariq, and Olusola Adesope. "Evaluating Commit, Issue, and Product Quality in Team Software Development Projects". In: *Proceedings of the 52nd ACM Technical Symposium on Computer Science Education*. 2021, pp. 108–114.