Gengyi Sun Curriculum Vitae

Gengyi Sun

LinkedIn

https://sungengyi.github.io/

ORCID

₹ Google Scholar gengyi.sun@uwaterloo.ca

PUBLICATIONS

International Conference Proceedings

- FSE'24 Gengyi Sun, Sarra Habchi, Shane McIntosh. RavenBuild: Context, Relevance, and Dependency Aware Build Outcome Prediction. *In Proc. of the Int'l Sym. on the Foundations of Software Engineering (ACM)*, pp. 45:1–45:23, Jul. 2024.
- ICSE'24 SEIP Gengyi Sun, Mehran Meidani, Sarra Habchi, Mathieu Nayrolles, Shane McIntosh. Code Impact Beyond Disciplinary Boundaries: Constructing a Multidisciplinary Dependency Graph and Analyzing Cross-Boundary Impact. *In Proc. of the Int'l Conf. on Software Engineering, Software Engineering in Practice track (ACM/IEEE)*, pp. 122–133, Apr. 2024.

Short International Conference Papers

ICSE'25 DS Gengyi Sun. Intelligent Automation for Accelerating the Repair of Software Build Failures. In Proc. of the Int'l Conf. on Software Engineering, Doctoral Symposium track (ACM/IEEE), Apr. 2025.

Blogs

Ubisoft Gengyi Sun. Build Outcome Prediction - Saving Time and Resources. Ubisoft, La Forge, Canada. Apr. 2024.

This blog is published by the official Ubisoft LinkedIn account, which has more than one million followers.

Thosas

MMath Gengyi Sun. Quantifying, Characterizing, and Leveraging Cross-Disciplinary Dependencies: Empirical Studies from a Video Game Development Setting. University of Waterloo, Canada. Dec. 2023.

INDUSTRIAL EXPERIENCES

Research and Development Intern (Ubisoft, La Forge)

Toronto Sept. 2022 - Sept. 2024

Researched the Continuous Integration (CI) process in the context of video games.

Dependency Graph Analytics

Formulated empirical analyses to identify changes of higher risks based on the dependency graphs of the video game project.

Build Outcome Prediction

Proposed strategies to reduce CI costs and improve CI stability. Multiple teams at Ubisoft have invested in developing API services to enable internal feedback cycles for this project. *This work was also presented at Game Developer Conference* 2024, and attracted interests from outside of the company.

COMMITTEE SERVICES

ICSE'26 Shadow Research Track PC, International Conference of Software Engineering

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MSR'25 Junior PC for Technical Papers, International Conference of Mining Software Repositories

ACTIVITIES

President Computer Science Graduate Student Association, University or Waterloo	Jul. 2024 - present
Student Volunteer ICSE'25	May. 2025
Student Volunteer FSE'24	Jul. 2024
Ubisoft Ambassadors Hack-The-North 2023	Sept. 2023

PRESENTATIONS

Invited Presentations

Taming the beast: use ML to curb CI costs at UDC 2024

Montréal Feb. 2024

Ubisoft Developer Conference (UDC) is an Ubisoft internal application-based conference. This talk is broadcast online to all Ubisoft employees globally (800 onsite viewers and 3,469 online viewers).

AWARDS

David Johnston International Entrance Scholarship	Apr. 2025
SIGSOFT CAPS Travel Grant to Attend FSE'24	Apr. 2024
SIGSOFT CAPS Travel Grant to Attend ICSE'24	Feb. 2024

EDUCATION

Ph.D, Computer Science University of Waterloo	Waterloo May 2024 - present
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Supervisor: Prof. Shane McIntosh

MMath, Computer Science University of Waterloo Waterloo Sept. 2021 - Dec. 2023

Supervisor: Prof. Shane McIntosh

B. Software Eng McGill University

Montréal Sept. 2017 - Apr. 2021