DYLAN J. WOLFF

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EDUCATION

National University of Singapore 2021 - Present
Ph.D. in Computer Science (GPA: 5/5) *Singapore, SG*

ETH Zürich 2018 - 2020
M.S. in Computer Science, Concentration: Information Security (GPA: 5.33/6) *Zürich, CH*
Thesis: *Value Mutation Testing for SMT Solvers*

Boston College 2011 - 2015
B.S. in Computer Science, Minor in Mathematics (GPA: 3.79/4, *magna cum laude, honors program*) *Newton, MA*
Thesis: *Mutational Fuzzing to Discover Software Vulnerabilities*

PUBLICATIONS

1. [**EMSE'25**] Dylan Wolff, Yannic Noller, Ridwan Shariffdeen, Abhik Roychoudhury. *"Shifting Fuzzing Left in Software Workflows."* Empirical Software Engineering (EMSE), 2025
2. [**TOSEM '25**] Dylan Wolff, Marcel Böhme, Abhik Roychoudhury. *"Fuzzing: On Benchmarking Outcome as a Function of Benchmark Properties."* Transactions on Software Engineering and Methodology (TOSEM), 2025
3. [**ASPLOS '25**] Huan Zhao, Dylan Wolff, Umang Mathur, Abhik Roychoudhury. *"Selectively Uniform Concurrency Testing."* 30th International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS), 2025
4. [**ASPLOS '24**] Dylan Wolff, Zheng Shi, Gregory J. Duck, Umang Mathur, Abhik Roychoudhury. *"Greybox Fuzzing for Concurrency Testing."* 29th International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS), 2024

WORK EXPERIENCE

Mathworks 2015-2018
Support and Software Engineer *Natick, MA*

- Developed custom internal testing and deployment tools, primarily in Java, to facilitate the infrastructure shift towards Docker containers orchestrated through Kubernetes for web applications such as MATLAB Online
- Rotated through several software development projects on different teams across the company ranging from C++ development of core MATLAB to Java/JS centric web infrastructure
- Received only $\geq 4/5$ in overall customer satisfaction surveys over the course of 13.5 months of technical phone and email support of MATLAB ($\mu = 4.8$); selected as a support team leader for handling escalations and organizing shifts

ACADEMIC AWARDS AND HONORS

President's Graduate Fellowship - (NUS) 2021
John J. Neuhauser Award - (BC) Awarded annually for most outstanding achievement in Computer Science 2015

TECHNICAL SKILLS

Languages	Python, Rust, C, Java, MATLAB, Javascript, SQL, Datalog, Viper, SMT-LIB
Technologies	LLVM, Docker, SQLite, Pandas, Z3, Maven, Kubernetes, React, E9Patch, eBPF
Other Skills	Fuzzing, Program Analysis, Deductive Verification, Reverse Engineering, Concurrency Testing