Yuefeng Hu

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Education

The University of Tokyo *Oct 2022 to Sep 2024*
MS in Computer Science

- GPA: 4.0/4.0
- Published a conference paper at SLE '24, and open sourced all source codes and artifacts

Beijing University of Posts and Telecommunications *Sep 2017 to Jul 2021*
BS in Software Engineering

- GPA: 3.3/4.0
- **Coursework**: Data Structure and Algorithm, Internet Protocols, Advanced Network Programming, Database Management System, Software Engineering, Data Warehousing and Data Mining

Experience

Software Engineer *Tokyo, Japan*
DataVisor *Feb 2025 to present*

- Working on feature platform and rule engine development for real-time fraud detection
- Supporting machine learning systems (UML/SML) and big data pipelines (Spark/Kafka)
- Contributing to optimizations for scalability and faster fraud decisioning

Software Engineer Intern *Beijing, China*
ZTE *Sep 2021 to Nov 2021*

- Built a lightweight Linux tool for real-time network traffic monitoring and classification
- Created an internal website with real-time traffic visualization using Pandoc and Chart.js
- Automated web server deployment using shell scripts

Publications

Bugfox: A Trace-Based Analyzer for Localizing the Cause of Software Regression in JavaScript Oct 2024

Yuefeng Hu, Hiromu Ishibe, Feng Dai, Tetsuro Yamazaki, Shigeru Chiba

10.1145/3687997.3695648 (SLE '24)

Projects

Bugfox *GitHub*

- Developed an automated trace-based analyzer, Bugfox, to identify the root cause of software regressions in JavaScript applications. The tool uses heuristic strategies based on invocation order and frequency, achieving 83% accuracy on 12 real-world regressions from the BugsJS benchmark. Bugfox effectively diagnoses those regressions with minimal memory overhead and fast performance, solving each regression in under 1 minute.
- Tools Used: JavaScript, Git, Shell, Node.js

Sand *GitHub*

- A programming language written in C++ with a ll(1) parser and a simple interpreter. It supports explicit function inlining, function redefinition, labeled loop, etc.
- Tools Used: C++, Makefile

Technologies

Languages: C, C++, Java, JavaScript, Python, Go, SQL, HTML/CSS

Technologies: Node.js, Spring Boot, PostgreSQL, Make/CMake, Git, Docker, Kubernetes, Linux, Shell Scripting, Nginx, Scrum Development