

Jifeng Wang

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EDUCATION

University of Michigan, Ann Arbor, MI, USA

Master of Science, in Computer Science Engineering; Cumulative GPA: 4.0/4.0

Expected graduate: April 2024

McGill University, Montreal, QC, Canada

Bachelor of Science, Major in Honours Computer Science; Cumulative GPA: 3.9/4.0

Apr 2021

Honors & Awards: - Distinction & First Class Honours in Computer Science
 - Howard J. Wigget Summer Undergraduate Research Award, 2020

Relevant Coursework: Advanced Cryptography, Randomness and Computation, Algorithm, Computer Networks, Operating Systems, Database Systems

RESEARCH EXPERIENCE

Abuse report scheme for E2EE Group chat | Research Project | University of Michigan

Jan 2023 – current

Supervisor: Professor Paul Grubbs, University of Michigan, Ann Arbor

- Used reverse engineering on .apk to investigate abuse report scheme of current instant messaging apps.
- Used man-in-the-middle proxy to intercept abuse report package sent by client-side application.
- Hooked internet requests with xpose and replaced certificate to bypass message encryption.
- Investigated Signal-like protocols and related vulnerabilities.

Optimal testing of Reed-Muller Code | Research Project | University of Michigan

Jan 2023 – April 2023

Supervisor: Professor Mahdi Cheraghchi, University of Michigan, Ann Arbor

- Investigated papers about current testing methods for Reed-Muller Code
- Added more detailed steps to existing proof of optimized testing algorithm.

Graph Visualizing Tool | Research Assistant | McGill University

Jan 2021 – Apr 2021

Supervisor: Professor Bettina Kemme, McGill University

- Designed a visualization tool for computer network graphs based on WebVowl.
- Wrote a Python script to transfer information in .csv files to corresponding .json files.
- Images generated by this tool were used in a paper submitted to ACM/IFIP Middleware 2021.

Network Package Parsing with SPICY | Summer Project | McGill University

May 2020 – Aug 2020

Supervisor: Professor Bettina Kemme, McGill University

- Implemented network monitor integration with Spicy (DPI), a deep packet inspection framework for network carries.
- Replaced C++ code with dissecting packets in original monitor; designed Spicy codes for HTTP, MySQL, and Redis.

PROFESSIONAL EXPERIENCE

Amazon Web Service | Software Engineer Intern | Seattle, WA, USA

May 2023 – Aug 2023

- Developed a fault report synthesizer for AWS code-signing service.
- Worked with python and CloudFormation to deploy Lambdas that query service client, store fault traces to database, and display with Amazon OpenSearch Service.
- Helped to improve efficiency for engineers to identify significant faults from traces.

Huawei Technologies Co., Ltd. | Software Engineer | Dongguan, China

Aug 2021 – May 2022

- Developed a synchronizer for databases as a back-end software development engineer.
- Worked on assigned projects, including a Single Sign On scheme for the Huawei Cloud device management system.

TEACHING EXPERIENCE

Graduate Student Instructor, “Data Structure” Course | University of Michigan

Aug 2022 – Dec 2023

Teaching Assistant, “Computer Systems” Course | McGill University

Jan 2021 - May 2021

SKILLS

- Computer: Java (with Maven, Spring, Functional Programming), C, C++, Python, JavaScript, MIPS (Assembly), C#, Ocaml, SQL, MATLAB, Linux