Jonah Rosenblum

Computer Science and Engineering jonaher@umich.edu
University of Michigan jonahrosenblum.com

Research Interests

I am interested in systems research, and frequently this intersects with security. My current research revolves around building systems that are efficient, scalable, easy to use, and secure. Right now I am working on building a system for secure and efficient federated genomics analysis at a massive scale, and additionally a subarray-aware memory allocator for preventing Rowhammer attacks in DRAM.

Education

University of Michigan Ann Arbor, MI
M.S. in Computer Science *Jan 2021-Dec 2021*

University of Michigan Ann Arbor, MI
B.S. in Computer Science *Sep 2017-Dec 2020*

Research Experience

Research Assistant Ann Arbor, MI
University of Michigan *Jan 2022-Present*
Project: Fast and Scalable Privacy-Preserving Federated GWAS with TEE
Research Mentor: Satish Narayanasamy

Graduate Student Research Assistant Ann Arbor, MI
University of Michigan Jan 2021-Dec 2021
Project: Fast and Scalable Privacy-Preserving Federated GWAS with TEE
Research Mentor: Satish Narayanasamy

Employment

Google Virtual
Software Engineering Intern *May-August 2021*
Team: GCloud Infrastructure
Analyzed inversion between network and application priority for high-priority Google traffic across all clusters and identified strategies to align less latency sensitive traffic with appropriate QoS.

Google Virtual
Software Engineering Intern *May-August 2020*
Team: Cloud Trace
Worked on open-source telemetry tool OpenTelemetry, implementing graceful shutdown for processes to ensure all traces and metrics are exported.

Teaching

Parallel Computer Architecture (EECS 570) Ann Arbor, MI

Graduate Student Instructor for Prof. Satish Narayanasamy *Jan-May 2021*

Technical Skills

Programming Languages: Very comfortable with C, C++, and Python. Familiar with many other object-oriented languages.