

Bijan Tabatabai

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EDUCATION

University of Wisconsin – Madison Ph.D. in Computer Sciences Advisor: Prof. Michael Swift	2020 – now
University of Wisconsin – Madison MS in Computer Sciences	2020 – 2022
University of Wisconsin – Madison BS in Computer Sciences and Electrical Engineering	2015 – 2020

RESEARCH INTERESTS

Broad Interests: Operating Systems, Distributed Systems, Computer Architecture
Recent projects focus on improving abstractions for kernel memory management

CBMM: Help kernel make better policy decisions by estimating costs/benefits of memory operations

FBMM: Use the VFS as an interface to make extensions to the memory manager

PUBLICATIONS

- **Bijan Tabatabai**, James Sorenson, Michael M. Swift. FBMM: Making Memory Management Extensible With Filesystems. USENIX ATC 2024.
- **Bijan Tabatabai**, Mark Mansi, Michael M. Swift. FBMM: Using the VFS for Extensibility in Kernel Memory Management. HotOS XIX.
- Mark Mansi, **Bijan Tabatabai**, Michael M. Swift. CBMM: Financial Advice for Kernel Memory Managers. USENIX ATC 2022.

INDUSTRY EXPERIENCE

Micron Technology , Software Developer Intern Researched tiering solutions for CXL memory expanders	May 2024 – August 2024
Ocient Inc. , Software Engineering Intern Optimized use of bloom filters in a database application.	June 2022 – August 2022
Extreme Engineering Solutions , Embedded Software Co-Op Maintained support for U-Boot boot loader on single board computers Performed rigorous release testing to ensure working software for production	May 2018 – August 2020
Northstar Medical Radioisotopes , Firmware Intern Wrote firmware for medical devices Used oscilloscope to debug firmware	May 2017 – August 2017

SKILLS

- C, C++, Java, Rust, Python Git
- Experience modifying the Linux kernel
- Experience writing embedded software