

Daniel Bittman

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Presently searching for kernel development work, research in operating system and processor support for non-volatile memory, and design of large-scale systems using emerging technologies.

Education

Ph.D. Student (current): UC Santa Cruz, Computer Science, Summer 2016 - Present

Adviser: Ethan Miller

Undergraduate: UC Santa Cruz, Fall 2011 - Spring 2016

GPA: 3.79/4.0

B.S. Computer Science - With Highest Honors

Senior Thesis: Implementing a Wait-Free Queue using C11 Atomics

B.S. Physics - With Honors

Senior Thesis: Solving Boundary Value Problems Efficiently Using Computers

Work Experience

Storage Systems Research Center, UCSC - Student Researcher: 2012 - Present

Research work in university computer science & computer systems lab.

Storage Systems Research Center, UCSC - System Administrator: 2015 - Present

Maintain compute clusters and equipment, and handle problems.

ITS Technician, UCSC: 2012 - 2013

Worked on a team to handle imaging of computers and technical support for departments.

Skills

- Programming: C, C++, Bash, Ruby, Rust, x86 Assembly, Python, HTML
- Software: git, SQL, vim, make, nginx, apache
- Linux system administration
- Server racking and management
- Kernel design and programming
- UNIX programming

Projects

Can be found at <http://github.com/dbittman>

- SeaOS - *UNIX compatible, self-hosting OS from scratch*
- MPSCQ - *Wait-free Queue Library in C11*
- rainfallgraphs.com - *Collects rainfall amounts and generates graphs of the data dynamically*

Other Interests

Musician - Guitar, Clarinet
Backpacking, Camping

Publications

- Bittman, Daniel, D. J. Capelis, and Darrell Long. "Introducing seas." *2014 International Conference on Information Science & Applications (ICISA)*. IEEE, 2014.