

Robert Williams

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EDUCATION

University of Wisconsin-Madison, Master's (September 2020 – Present)

- Computer Science Major
- Coursework:
 - Mobile and Wireless Networking (802.11)
 - Building User Interfaces (UX, React, React Native)

Brigham Young University, Bachelor's (September 2014 - April 2020)

- Computer Science Major, Mathematics Minor, 3.98 GPA
- Thomas S. Monson Presidential Scholarship (full tuition, plus stipend)
- Coursework:
 - Operating Systems Design, Real-Time OS, Systems Programming (C, Assembly)
 - Computer Networking (TCP/IP, Link Layer), Wireless Networking (802.11)
 - Computer Security, Mathematical Cryptography (TLS, AES, RSA, DH)
 - Software Design and Testing, Advanced Programming Concepts (Java, Android)

Strictly Business: The Dale Carnegie Immersion Seminar (November 2019)

WORK EXPERIENCE

Teaching Assistant, Intro to Operating Systems, UW-M (September 2020 - Present)

- Taught students in individual and lecture settings. Concepts included: concurrency, virtual memory, scheduling, C programming language, etc.
- Prepared course content for discussion section lectures.

Backend Software Engineer, Unicity (May 2019 – August 2020)

- Designed MSSQL database schemas for complex item pricing and shipping data.
- Designed and built API endpoints to store, retrieve, and process order and customer information using PHP, Javascript, Docker, and Kubernetes.

Teaching Assistant, Systems Programming, BYU (January 2019 - April 2019)

- Taught systems programming concepts including concurrency, inter-process communication, network sockets, epoll, DNS and HTTP protocols, etc.

Intern, Full Stack Software Engineer, Banyan (July 2017 - January 2019)

- Wrote an OAuth 2.0 implementation that allows partners to access the Banyan API.
- Wrote account management tools for the Banyan webapp using C#/Vue.js.

Assistant Instructor, Coding Campus, now VSchool (January 2015 - May 2015)

- Assisted with the launch and instruction of their MEAN Stack course.
- Created slides, homework assignments, and class projects; presented lectures.

PERSONAL

- ACM club; I attended meetings and participated in programming competitions.
- Volunteer representative for the Church of Jesus Christ of Latter-day Saints in Mexico (2015 - 2017).
 - Fluent in Spanish; contacted and talked with locals full-time.
 - Supervised and trained groups of 6-8 international volunteers doing religious outreach.
- Eagle Scout.
- Grand Canyon Rim-to-Rim-to-Rim in under 24 hours (42 miles; 22K ft elevation change).
- I enjoy rock climbing, piano, reading, hiking, and programming.
- I'm a fan of free software. Debian GNU/Linux, Firefox, and VIM are my daily drivers.