

# Robert Williams

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## EDUCATION

### **Brigham Young University (graduating April 2020)**

- Computer Science Major, Mathematics Minor, 3.98 GPA
- Thomas S. Monson Presidential Scholarship (full tuition, plus stipend; given to top 0.7% of students).
- Coursework:
  - Software Design and Testing, Advanced Programming Concepts (Java, Android)
  - Operating Systems Design, Real-Time OS, Systems Programming (Assembly, C)
  - Data Structures, Discrete Structures (C++)
  - Computer Networking (TCP/IP, Link Layer), Wireless Networking (802.11)

## WORK EXPERIENCE

### **Backend Software Engineer, Unicity (May 2019 - Present)**

- 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, CS 324 Systems Programming, BYU (January 2019 - April 2019)**

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

### **Intern, Software Engineer, Banyan (July 2017 - January 2019)**

- Wrote integrations to regularly pull users' reviews and posts from Google, Facebook, and Twitter and post on the users' behalf using OAuth 1.0 and OAuth 2.0.
- Wrote an OAuth 2.0 implementation that allows partners to access the Banyan API.
- Wrote pages for account/organization management for their Webapp using ASP.NET/Vue.js.

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

- Assisted with the launch and instruction of their new MEAN Stack course.
- Created slides, homework assignments, and class projects; presented many of the lectures.
- Co-taught and mentored two 12-week cohorts with 10 students each.

## VOLUNTEERING & ACTIVITIES

- ACM club; I attend meetings and participate 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 other international volunteers doing religious outreach.
- Eagle Scout.
- Hiked the 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.