

# Dan Roberts

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*Software Engineer and Computer Science Educator*

## Contact

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## Technical Skills

Full-stack web development  
Modern JavaScript  
React + Redux  
Ruby on Rails  
Systems programming  
Test-driven development  
Build systems and CI

## Personal Skills

Teaching and mentorship  
Technical leadership  
Public speaking

## Education

**Purdue University**  
**West Lafayette, IN**

B.S., dual degrees in  
Computer Science and  
Mathematics, minor in  
Japanese

2009 – 2013  
GPA: 3.93

Citizenship: USA

## Objective

I seek a full-time position as a senior software engineer starting in September 2020. The specific flavor of engineering (front-end, back-end, devops, etc) is less important than finding a team I like, a product I'm proud of and a mission I believe in. I prefer to work in Seattle, but am open to relocation or remote work.

## Career Highlights

### Lead Instructor, Interim Director of Education

**Ada Developers Academy, Seattle, WA** Sep 2016 – June 2020

Served as manager and technical lead for a team of 7 instructors delivering a high-intensity 6-month course in full-stack web development. Stabilized the team through a crisis of leadership as our Executive Director stepped down, and revamped a failing recruiting process to hire 4 instructors over 15 months.

### Senior Software Engineer

**EMC Isilon Storage Division, Seattle, WA** June 2013 – Sep 2016

Implemented network file-sharing protocols over a distributed filesystem. Built a system to detect and report distributed lock loss events, upgraded parts of the build system, and worked towards simplifying management and usability.

## Complete Professional Experience

### Shoreline Community College, Shoreline, WA

**Associate Faculty** July 2020 – present

Delivered a fully remote and asynchronous introduction to programming course in Python. Supported students in overcoming a variety of barriers, including culture and language gaps and differences in access to technology.

### Ada Developers Academy, Seattle, WA

**Instructor** Feb 2020 – June 2020

Independently planned, delivered and administered two novel courses: a pre-application workshop for under-represented minorities, and an advanced data structures class for alums.

**Interim Director of Education** June 2018 – Aug 2019

**Lead Instructor** July 2017 – June 2018

**Instructor** Sep 2016 – July 2017

Stepped up into a leadership / management position when the former Director of Education left, then helped stabilize the organization through a crisis of leadership as our Executive Director abruptly stepped down.

Managed a team of 7 instructors, including hiring, onboarding, performance reviews and professional development. Found and regularly met with an external mentor to grow as a new manager.

Coordinated instructional team activities including scheduling, curriculum development, project feedback, and tools development, as well as cross-team functions such as admissions and internship placement. Delegated work and ensured deadlines and quality standards were met.

Collaborated with a co-instructor to provide consistent, high-quality instruction in full-stack web development, despite organizational instability and pressing leadership responsibilities.

Authored substantial portions of Ada's curriculum, focusing on balancing practical skills with theory, maintaining a clear and consistent voice, and leveraging modern pedagogical best practices.

## **EMC Isilon Storage Division, Seattle, WA**

**Senior Software Engineer**

July 2015 – Sep 2016

**Software Engineer II**

June 2013 – July 2015

**Software Engineering Intern**

May – Aug 2012

Designed and implemented a custom NFS server in userspace for the OneFS distributed file system in C, C++ and Python, focusing on online performance profiling, management and general usability.

Implemented the Network Status Monitor protocol on OneFS, allowing the NFS server to protect against lock loss in a distributed environment, a key component for continuous availability and graceful failover.

Upgraded the build system, finding and eliminating pain points and increasing engineering velocity.

Guided the NFS and SMB teams (~15 people) through the transition from SVN to Git, assisted in developing the official Git workflow, and served as a general Git guru.

## **Microsoft TEALS / Nathan Hale High School, Seattle, WA**

**Volunteer CS Instructor**

Sep 2014 – June 2016

Partnered with another engineer and a professional teacher to deliver a year-long AP Computer Science course in Java and an advanced post-AP course for returning students. Tasks included composing and delivering all lessons, designing lab projects, grading completed assignments and coordinating class time.

## **Purdue University, West Lafayette, IN**

**Research Assistant**

Jan 2012 – Jan 2013

Utilized machine learning techniques such as Bayesian classifiers and decision trees to uncover differences between distributed and collocated work groups, and co-authored a paper detailing results. Traveled to Amsterdam in September 2012 to present work at SocialCom, the conference on social computing.

**Teaching Assistant**

Jan 2011 – Jan 2012

Designed lab projects, maintained a website for student use and conducted weekly lab sessions for an introductory course in Java programming. Tasks included short presentations on the subject matter, debugging code, troubleshooting embedded systems, and grading completed assignments.

## **Qualcomm, San Diego, CA**

**Software Engineering Intern**

May – Aug 2011

Developed test platforms for power management and kernel stability on Windows Mobile 8 using the Windows Driver Framework in C++, and created and maintained utilities to synchronize and install builds in C#, while working with multiple large, diverse teams.