

Joe Broder

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Summary

Full-stack web and mobile developer. Strong Python and C++. Proficient with REST, JavaScript, Swift, Flask, and Qt.

Education

University of California

Berkeley, CA 3.33 CS GPA

B.S. Computer Science, College of Engineering (EECS), Class of 2022

Whitworth University

Spokane, WA. 4.00 CS GPA

C++/Object Oriented Programming (Non-Matriculated 2017)

Skills

Languages

- C++
- Python
- JavaScript
- HTML/CSS
- Swift

Tools

- Flask
- Qt
- Firebase
- Angular
- Selenium
- JQuery
- AWS Lambda
- Git
- XCode
- Sketch
- Photoshop

Technologies

- Mobile
- Desktop
- Web
- REST
- Alexa
- Linux/Bash

Hackathons

- **CalHacks**, Berkeley 2018
- **ATT Shape**, San Francisco 2016
- **OutHacks**, San Francisco 2016
- **AngelHack**, San Francisco 2016

Experience

ExtraTech Systems, Post Falls ID | Intern 6/14-12/14, 6/18-8/18
Manufacturer of high-end motor controllers used in robotics and CNCs

- (2014) Built a responsive web interface to monitor multi axis motor controllers using Angular, Node, and Bootstrap
- (2018) Developed a cross platform mobile client with Qt, C++, and QML to monitor machine data as part of an IOT software suite for OEMs and manufacturers

Blue Marble, Hayden ID | Software Engineer 12/17-2/18
Web-based platform for non-programmers to build Amazon Alexa skills

- Researched Alexa and AWS toolkits, responsible for design and coding of the prototype, and handover to development team
- Coded JavaScript front-end using Angular, Bootstrap, and JQuery and generates JSON output based on user's web-form data input
- Created Python FLASK service inputting JSON and generating associated python code and creating AWS Lambda function
- Used Selenium with headless Chrome Driver for skill registration

MakeSchool Academy, San Francisco CA | Participant 6/16-8/16
Full-time intensive IOS development bootcamp (YCombinator funded)

- Built 7 Swift and FireBase iOS apps including clone of Instagram
- Delivered a "Demo Days" pitch to venture capital investors

Graduation Order, Hayden ID | Consultant 10/17-4/18
Graduation ceremony application manages students called up on stage

- Built a C++ front end that interfaced to a mySQL backend

Personal Projects & Research

Mango Reader

Desktop Kindle-like reader for Japanese Genre "Manga" comics

- Built in C++ with Qt Widgets, features include a thumbnail gallery, saving books, and image zoom with kinetic scrolling
- Starting with MVP, solicited user feedback which was later incorporated into two production releases
- <https://github.com/joe-broder15/mango>

Machine Learning by Andrew Ng

Coursera's machine learning and AI class from Stanford online

- Planned completion: April 2019
- <https://www.coursera.org/learn/machine-learning>