

Brandon H. Falk

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Education

University of California San Diego (UCSD)

San Diego, CA, United States

B.S. IN COMPUTER SCIENCE

September 2013 - December 2016

- Graduated from Revelle College with Honors and a GPA of 3.7
- Part of Engineers for Exploration (E4E) research group

Skills

Web Stack

JAVASCRIPT (ES5 AND ES6), NODEJS, WEBSOCKETS (SOCKET.IO), POSTGRESSSQL, REACT, NPM, WEBPACK, BABELJS,

CSS MODULES, <INSERT NEW WEB TECHNOLOGY THAT JUST RELEASED HERE AND WE CAN'T LIVE WITHOUT>

- Also basic understanding of MongoDB, CSS, SASS / SCSS
- Focus more on backend development and have just recently begun learning more frontend concepts

Systems

C, C++, JAVA, SQL, *NIX COMMAND LINE TOOLS, TCP/IP SOCKETS, VIM, TMUX

- General understanding of operating systems
- General understanding of compilation / build processes

Functional Programming

HASKELL, OCAML, SCALA

- Good understanding of functional programming techniques and their benefits

Mobile Development

ANDROID STUDIO

- More experience with developing research tools with mobile devices than 'apps'

Experience

e.Digital Corporation

San Diego, CA

HARDWARE / SOFTWARE TESTER

Fall 2006 - 2009

- Collaborated with the development team to produce a test plan for teh eVU Media Player
- Acquired hands on experience in 'black box' testing hardware
- Acquired early insight to how a development team functions

UCSD

La Jolla, CA

STUDENT

September 2013 - December 2016

- CSE 100: Implemented many different types of data structures, including a Huffman tree for lossless encoding / decoding of files
- CSE 110: Implemented the backend server for a websocket based realtime question asking application for use during lectures
- CSE 112: Lead the backend team developing a 'checkin' service for use at a company's front office
- CSE 120: NACHOS project, implemented an OS that ran on the JVM
- CSE 124: Implemented basic HTTP server using Unix Sockets following a subset of the HTTP/1.1 protocol, as well as a 'dropbox' distributed network for storing and retrieving files in chunks
- CSE125: Implemented a realtime messaging protocol ontop of winsock for use in a realtime multiplayer game
- CSE 131: Implemented a compiler for a reduced set of C, Written in JAVA
- CSE 150: Implemented Artificial Intelligence search algorithms such as A* in the form of a Pacman agent, as well as Constraint Satisfaction algorithms such as Backtracking Search in the form of a Sudoku solver
- Engineers for Exploration: Worked on the Birdnest project developing a package that was loaded on different drones to collect thermal / visual image data while tracking GPS information

Other Projects

SOFTWARE ENGINEER

- Fun projects with friends or myself that range from game making to enigma machine based chat. <https://github.com/bfalk8>