Justin Brush

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OBJECTIVE

High potential entry level developer pursuing challenging full-time work on front-end, back-end, and/or full-stack development on a product or service that makes the world simpler.

EXPERIENCE

Software Engineer (Android) - Snap, Inc.

Santa Monica, CA | October 2017 - Present

Implements and maintains features for the user interface on the Android platform of the company's flagship product, predominantly on the "Friends Feed" and the "Chat Conversation View". Worked on the late 2017 Snapchat redesign. Responsible for matching product to design specs, meeting feature deadlines, and fixing bugs.

Software Engineer (Cloud Infrastructure) - Infoblox

Tacoma, WA | May - September 2017

Contributed to a platform on which other teams at the company can deploy, update, and monitor applications. The platform is compatible across cloud (AWS EC2) and onprem instances. Microservices are containerized using Docker and orchestrated using Marathon, Mesos, and/or Kubernetes. Worked with Golang, bash scripting, and SQL. Developed with the Agile methodology.

Software Development Engineering Internship - AWS

Seattle, WA | May - August 2016

Contributed to the front-end of a new technology to be used on S3 Index. The new technology provided a user-friendly interface that enabled on-call developers to quickly gather information and perform actions on servers that handle S3 customers' requests. Worked with Java, HTML, CSS, JS, and the Freemarker template on a Spring MVC Framework. Used the "test driven development" model and Agile methodology. Used git to ship contributions through a pipeline that ran tests in development and production environments.

Founder - TheatreBot

January 2017 - Present

Created a callback scheduling web application designed for use in the theatre industry. A unique scheduling problem exists when the production crew of a theatre festival attempts to schedule a pool of actors into callback slots (e.g. time constraints on actors and directors), and until recently this problem has been solved by hand. TheatreBot creates a stable callback schedule, saving *hours* of headache and frustration. TheatreBot has been developed with HTML, CSS, and JS, using MongoDB, Express, Angular, and Node.js. Currently leading a 4-member team. TheatreBot has been used at the University of Puget Sound and will be used by regional theatres in the future. A link to the "alpha" environment is available on my personal webpage.

Bioinformatics Independent Study

University of Puget Sound | Spring 2017

Conducted an independent study that found solutions to biology problems using computer data structures and algorithms. For example, a great solution for finding the sequence alignment between two genes uses dynamic programming. Programs written in the study were designed to take in real data for input. Programs were written in Python. Algorithms used and/or taught were Needleman-Wunsch, Smith-Waterman, Neighbor Joining (used in phylogenetic tree predictions),

Fitch's Algorithm, Sankoff's Algorithm, leave-one-out cross-validation (used in machine learning), the Viterbi Algorithm, the Forward Algorithm, and the Forward-Backward Algorithm, also known as Baum-Welch.

EDUCATION

University of Puget Sound, Tacoma, WA | Graduated May 2017
Bachelor of Science in Computer Science and **Bachelor of Arts** in Theatre

TECHNOLOGY SUMMARY

Proficient in Java, Python, HTML, CSS, JavaScript, MEAN.js (MongoDB, Express, Angular.js, Node.js), Android, Spring, Unix/Linux environments, Git.
Familiar with AWS (EC2), Golang, Bash scripting, Docker, Marathon, Mesos, Kubernetes, SQL.
Other things in which I am proficient: improv, demilitarized rifle spinning, muggle quidditch.

OTHER EXPERIENCE

Robot Builder - Centennial HS Vex Robotics & Science Olympiad

Las Vegas, NV | 2009-2012
Built and programmed robots to move, pick up blocks/balls/rings, and place them onto scoring platforms. Won multiple state-wide competitions.

NJROTC Cadet - Centennial High School NJROTC Program

Las Vegas, NV | 2008-2011
Member of the national championship winning Navy Junior Reserve Officer Training Corps program. Promoted to commander of the armed drill team in my junior year. Responsibilities included running practices, delegating authority to junior officers and squad leaders, teaching proper drill techniques, keeping track of each member's progress in the NJROTC program as well as academic performance, internalizing notes and critiques from the program's instructors, building trust and camaraderie within the team, and ultimately helping the team grow as a whole.