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Qualifications Summary

I've had a lifetime fascination with computers and electronics, including 6+ years of specific experience as a computer repair technician, diagnosing and fixing both hardware and software issues. I am familiar with Java and Python, as well as with full-stack web development in HTML, CSS, JavaScript (jQuery), PHP, Django, and MySQL/PostgreSQL. I am also proficient in LaTeX. I have good communication skills; whether working on a team or with an individual, I am able to explain complicated issues in a clear manner. Finally, I am a fast, eager, and passionate learner.

Education

Ingraham High School – Class of 2015

IB Diploma Recipient

University of Washington Computer Science – Class of 2019

B.S. Computer Science anticipated 2019

Work and Volunteer Experience

Progressive Tech (Seattle, WA) – Computer Repair Technician, 2009-2016

I began as an unpaid intern in 8th grade and then worked as a paid employee throughout high school. I performed diagnostics, maintenance, and repair work on laptop, desktop and server computers, including hardware and software, and spanning Windows, Mac OS, and Linux operating systems. I implemented and maintained a server for network-based operating system deployment and bootable diagnostic tools, first using Ubuntu Linux (with FOG) and then Windows Server 2012 (with WDS and MDT). I worked to formulate improved strategies for our repair and data recovery processes, and gained experience working with customers to explain and solve their computer problems.

Tutoring and Independent Consulting

I have tutored younger students in math and programming, and people of all ages in computer skills. I have also performed independent computer repair and web development work for individuals and businesses, including the development of referral-tracking software for a medical practice.

Canoe Island French Camp (Canoe Island, WA) – Maintenance Volunteer, Summer 2014

After attending as a camper for four years, I transitioned to a position of responsibility. I worked within a small group to maintain and improve camp facilities. Through this work, I developed important communication skills as well as a strong sense of pride in completing a job thoroughly.

Projects & Activities

Dubhacks — Participant, October 2016

My team designed a web application to help connect the homeless population of Seattle to the resources available to them. Homeless aid facilities can list what they offer, such as Internet access, sleeping accommodations, etc., as well as specialized resources such as youth care, and those browsing can use filters to see which facilities are most applicable to them. Furthermore, facilities can post which commodities (shampoo, razors, etc.) are out of stock, or low on stock, so members of the community know exactly what to donate.

First Robotics Competition Team 4030 — Lead Web Developer, 2013-2015

I led a team in developing an open-source, web-based data collection and processing application to track our competitors' strengths and weaknesses in competition. Our app, based on Django, tracked and analyzed data for over 500 teams during the 2015 competition season. In addition, I wrote web-based task management software for our group to help us track projects, teams, and deadlines (also using Django). I was nominated for the Dean's List Award in 2014.

Sloth Pages — 2015

I developed a website called Sloth Pages, which allows teachers to post information about class announcements, assignments, links, and files, for students to view. Based on Django and Bootstrap, the website is designed to be light and mobile-friendly so students can keep track of their coursework from any device without having to log in. This project was inspired by the clunky and un-intuitive website that my school district had for teacher websites, which nearly all of the students and teachers dreaded using.

Relevant Coursework

- CSE 143x – Computer Programming I/II (Fall 2015)
- CSE 351 – Hardware/Software Interface (Spring 2016)
- CSE 311 – Foundations of Computing I (Fall 2016)
- CSE 332 – Data Structures and Parallelism (Winter 2017, in progress)

References: available upon request.