Matthew R. Hubbard

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Experience and Skills

- Led a capstone team on a full stack web project with agile development methodologies. Created and delegated kanban tasks, held stand-ups, and coordinated with the client.
- Used git to manage simultaneous software development on multiple team-based school projects.
- Designed billing account software and interfaced with a SQLite database for a CS300 team project.
- Used UDP Sockets, POSIX Threads, and timers to implement a file transfer protocol in C++.
- Did extensive bash scripting and data analysis using Octave as part of a team detecting system noise on a linux compute cluster.
- Wrote concurrent kernel level C code for OS process management and implemented user level commands including *ps*, *time*, *date*, *chmod*, *chown*, and *chgrp*.
- Independently developed a plant monitoring system using Arduino and ESP8266 microprocessors that transmit humidity, soil moisture, light level, and temperature over RF and Wi-Fi to a Django web server.

Work Experience

Computer Science Lab Facilitator - Portland State University 9/17 - Present
Facilitated lower division computer science labs and tutored students. I managed lab assistants and gave presentations on core computer science topics with a focus on data structures and OOP. Researched the OpenACC parallel model and wrote lab code for lower division labs.

Operating Systems Lab Assistant - Portland State University 9/18 - 12/18
Answered questions pertaining to the unix-like XV6 operating system for an upper division operating systems class. Debugged user and kernel level C code using GDB and graded homework.

IT Support Desk Volunteer - Portland State University Computer Action Team 9/17 - 9/18
I coordinated with a large team to handle student and faculty support tickets. I activated new user accounts, maintained lab printers, added hosts to the network, and attended weekly "Braindump" seminars on various IT topics. I developed IRC tooling in python to help maintain researchers' data and personal servers.

Education

Pursuing a B.S. in Computer Science - Portland State University Expected Graduation: 12/19
3.70 GPA. Dean's List (3 quarters), Tau Sigma Honor Society, National Society of Collegiate Scholars

Associate of Applied Arts in Audio Production - Art Institute of Seattle Graduated 12/13

Pursued a B.S. in Mathematics - Boise State University 8/10 - 3/11

Two Summer Workshops in Video Game Programming - Digipen Institute 6/08, 6/09

Technology Summary

Advanced: C, C++, Java, Python, Vim
Intermediate: Linux/Bash, Git/GitHub, SQL, GDB, Valgrind, openMP, openACC, Pthreads, HTML, Javascript, jQuery, CSS, Bootstrap, Django, Vue.js
Basic Skill: Node.js, Express, Cisco IOS, Haskell, VBA, Octave/Matlab, LaTeX, x86 Assembly