

Cole Manning

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WPI Junior currently seeking a Summer 2022 Internship that will make use of my experience working on Agile software development teams, and knowledge of Java, C/C++, Python, or web languages. Have held steady employment since 2015, and have experience in web development outside of WPI courses.

EDUCATION

Pursing Bachelor of Sciences in Computer Science

Class of 2023

Worcester Polytechnic Institute

Worcester, MA

- GPA of 3.80 (as of Summer 2022)
- Executive Member of *Upsilon Pi Epsilon*, Computer Science Honors Society

RELEVANT COURSEWORK

CS3733 Software Engineering (in collaboration with Brigham & Women's Hospital) | *Java*

This course had eleven-person student teams working in a class competition to apply Agile development methodologies and software design patterns in Java to create an indoor pathfinding application, map builder, COVID-screening survey, and integrated service request modules for Brigham & Women's Hospital. The software systems that student teams created were to inform the hospital representatives about potential features, user interfaces, or design approaches that they might consider implementing.

- As a Scrum master, led daily scrums and coordinated the sprint planning, review and reflection meetings
- As part of the UI team, wrote code daily to interface with the algorithm and database teams

CS4516 Advanced Networks | *Python*

- Researched and planned creation of "Centrally-Managed Perimeter Access Control" project, an OpenFlow powered software-defined network firewall for honeypotting bad-actors en masse, based on paper by Prof. Craig Shue

See colermanning.com/docs/courses.pdf for full course-listing

RELEVANT PROJECTS

Guns of Icarus Caster Companion (Desktop Application) | *Java, JavaFX, CSS*

Jul 2021 – Sep 2021

- Created and maintained application for online streamers in the Guns of Icarus Online community
- Created native executables for multiple operating systems and distributed via website (goicc.skyborne.net)

Grailed Plus (Browser Extension) | *Javascript, JSON, CSS*

Oct 2020 – Nov 2020

- Analyzed network operation of merchant website to determine operation of back-end API
- Scraped additional information from API and added info to product pages through a browser extension

TECHNICAL SKILLS

Languages: Elixir (incl. Phoenix), Java (incl. JavaFX), C/C++, Python, HTML/CSS, JavaScript, Kotlin, \LaTeX

Software: JetBrains IDEs, git, GitHub (Issues, Project, Teams), VMware/VirtualBox, Adobe Suite, Docker

Operating Systems: Windows, Mac OS, Linux (Ubuntu, Unraid Server, Debian/Raspbian)

WORK EXPERIENCE

Software Engineer Intern

May 2022 – August 2022

MojoTech

Providence, RI / Remote

- Joined intern team in development of company maintained open-source web applications
- Participated in daily stand-up meetings
- Regularly submitted and peer-reviewed pull requests
- Wrote Elixir code using the Pheonix framework
- Practiced atomic commits with regular rebasing

Computer Lab Assistant

Oct 2019 – Present

Worcester Polytechnic Institute

Worcester, MA

- Work on time sensitive technical projects for faculty, staff, and graduate students
- Researched and implemented improvements to group policy on remote desktop servers as part of work to find solutions for new and existing problems and workflows in order to streamline operations
- Set up new machines (imaging, installing drivers and requested software, physical setup)
- Contacted users to schedule upgrades and pickup/drop-offs of computers and other technical equipment

Digitization Program Volunteer, Digitization Consultant

Jun 2020 – Present

Worcester Polytechnic Institute & Clark University

Remote

- Work directly with clients in a small team setting via remote conferences
- Determine client's needs and budget and proposed potential service subscriptions
- Create and update websites for small businesses using popular web-builders
- Educate clients on use of new website or digital service

Store Clerk

Aug 2021 – Present

Highland Liquors of Worcester

Worcester, MA

- Operate cash register and state lottery system
- Maintain stock on shelves and in coolers
- Provide assistance to customers

IT Assistant

Jun 2017 – Aug 2019

Francis W. Parker Charter Essential School

Devens, MA

- Provided general IT support and troubleshooting to teachers
- Maintenance tasks (running new Fiber/Ethernet cabling, replacing and re-imaging hard-drives)
- Troubleshot faulty computers, printers, and miscellaneous technology

Library Page

Sep 2015 – Aug 2019

Hazen Memorial Library

Shirley, MA

- Assisted patrons with library computers and questions about library services
- Shelled books, weeded old books, pulled holds, library cleanup, and other such miscellaneous tasks