Cole Manning

978-798-2395 | colemanning@yandex.com | linkedin.com/in/colemanning | github.com/rvrx | colermanning.com

WPI graduate currently seeking full-time employment opportunities that will make use of my experience working on Agile software development teams, and knowledge of many modern programming languages – both front and back end. Have held steady employment since 2015, and have experience in web development and networking technologies outside of college courses and other professional experiences.

EDUCATION

Bachelor of Sciences in Computer Science
Class of 2023

Worcester Polytechnic Institute — *Worcester, MA*

- 3.82 GPA
- Executive Member of *Upsilon Pi Epsilon*, WPI's Computer Science Honors Society
- CS peer mentor via faculty nomination
- Early graduation due to excess credits

WORK EXPERIENCE

End User Computing Analyst
Jul 2023 – Present

UMass Memorial Health (Contract) — *Worcester, MA*

- Contracted through TekSystems to help UMMH with IT project across their Central MA campuses

Software Engineer Intern
May 2022 – Aug 2022

MojoTech — *Providence, RI / Remote*

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

Computer Lab Assistant
Oct 2019 – Jun 2023

Worcester Polytechnic Institute — *Worcester, MA*

- Worked on time sensitive and high priority technical projects for faculty, staff, and graduate students
- Researched and implemented improvements to group policy on remote desktop servers
- Imaged, installed drivers on, and built new Windows and Linux machines
- Contacted users to schedule upgrades and pickup/drop-offs of computers and other technical instruments

Digitization Program Volunteer, Digitization Consultant
Jun 2020 – May 2022

Worcester Polytechnic Institute & Clark University — *Remote*

- Worked directly with clients in a small team setting via remote conferences
- Determined client's needs and budgeted and proposed potential service subscriptions
- Created and updated websites for small businesses using popular web-builders
- Educated clients on use of new website and/or digital service

Store Clerk
Aug 2021 – Present

Highland Liquors of Worcester — *Worcester, MA*

- Handle store opening and closing
- 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
- Shelved books, weeded old books, pulled holds, library cleanup, and other such miscellaneous tasks

Relevant Coursework

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

  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

'Homelab' | *Proxmox VE, Ubuntu Server, Unraid, UniFi, Nginx, Docker, . . .*   2022 – Present
- Provision and maintain operation of multiple servers and hypervisors providing services for home, friends, and smaller communities
- Setup switching gear to operate 10G SFP Plus network on LAN
- 12U server rack with custom built 4U and 3U servers, a handful of RPIs, along with an external (custom) NAS

Technical Skills

Languages: Elixir (incl. Pheonix), Java (incl. JavaFX), C/C++, Python, HTML/CSS, JavaScript, Kotlin, LaTeX
Software: Docker, git, GitHub, JetBrains IDEs, VMware/VirtualBox, Proxmox VE, Adobe Suite
Operating Systems: Windows, Mac OS, Linux (Ubuntu Desktop/Server, Unraid Server, Raspbian, some Arch)