Cole Manning

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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
Worcester Polytechnic Institute

Class of 2023
Worcester, MA

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

WORK EXPERIENCE

End User Computing Analyst
UMass Memorial Health (Contract)

Jul 2023 – Present
Worcester, MA

- Contracted through TekSystems to assist UMMH with IT projects across their Worcester campuses
- Completed projects utilizing Windows & Linux networking utilities, Active Directory, Imprivata, and ServiceNow

Software Engineer Intern
MojoTech

May 2022 – Aug 2022
Providence, RI / Remote

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

Computer Lab Assistant
Worcester Polytechnic Institute

Oct 2019 – Jun 2023
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
Worcester Polytechnic Institute & Clark University

Jun 2020 – May 2022
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
Highland Liquors of Worcester

Aug 2021 – Present
Worcester, MA

- Independently manage store opening and closing procedures
- Train new hires on operating procedures
- Provide assistance to customers

IT Assistant
Francis W. Parker Charter Essential School

Jun 2017 – Aug 2019
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
Hazen Memorial Library

Sep 2015 – Aug 2019
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

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)

'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+ network on LAN (UniFi + Mikrotik)
- 12U server rack with custom built servers, a NAS system, and multiple RPIs for lightweight services

Techno Ambiance | *TouchDesigner, Resolume*   Feb 2023
- Along with DJ co-performer, secured funding from WPI's event committee and AV production team
- Performed live-generated and audio-reactive visuals programmed in TouchDesigner, and fed to multiple displays via Spout interface to Resolume Arena
- Helped plan rental of stage-spanning LED wall and large-venue projection equipment

Blog | *blog.rvrx.dev*
- Informational posts on topics of interest to me, along with technical documentation of personal projects
- Blog compiled from Markdown with custom MD to HTML pipeline (using NodeJS, markdown-it, and Nunjucks)

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

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

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

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)