

Imani D. Pelton

Email: imani@bepri.dev

Phone: (423) 505-0148

Portfolio: <https://www.github.com/bepri>

LinkedIn: <https://www.linkedin.com/in/imanipelton/>

Experience

University of Tennessee, Knoxville

October 2021 – Present

IT Helpdesk Assistant

- Worked directly with researchers, professors, and staff to resolve technical problems
 - Managed departmental inventory
 - Configured and deployed new devices
 - Created automation tools to increase office productivity
 - Assisted in training new student employees
 - Helped to document and formalize internal processes
 - Co-presented projects at university symposiums representing our department
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Education

University of Tennessee, Knoxville

Knoxville, TN

M.S. Computer Science

Projected Graduation: May 2024

GPA 3.8/4.0

University of Tennessee, Knoxville

Knoxville, TN

B.S. Computer Science, minor in Cybersecurity

Completed: May 2023

GPA 3.9/4.0

Dean's list, *summa cum laude*, Fall 2019 – Spring 2023

Chattanooga State Community College

Chattanooga, TN

Associate of Arts and Sciences

Completed: May 2019

GPA 4.7/5.0

Dean's list, *magna cum laude*

Skills and Qualifications

- Programming languages –
 - Advanced: Rust, Python, Bash
 - Intermediate: C, C++, Java, TypeScript
- Operating systems –
 - Advanced: Linux (RHEL/Fedora, Debian), Windows
 - Intermediate: MacOS
- Tools & Technologies –
 - Advanced: Git, Make, VS Code, GDB
 - Intermediate: REST APIs, Docker, ReactJS, Unit & Integration Tests
- Experience with remote management tools such as Ansible, Nagios, and Tenable Nessus

- Great at assessing needs and communicating effectively with clients
 - Typing speed average of 120WPM
 - Spearheading new projects and leading them to completion
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Projects Completed

- Co-created (and actively maintaining) a security bot written in Rust for the Discord chatting app. This bot leveraged 2FA and TOTP technologies to register and later authenticate users to verify their identity before giving them access to privileged abilities such as chat moderation or announcement tools by interacting with the Discord REST API.
 - Developed an inventory management system for loaning out assets to students. This was implemented with an API backend written in Go using SQLite3 and a frontend written in ReactJS. It features barcode scanning, setting email reminders to return items, and a rich search bar for querying the inventory. I worked on designing the API specification and implementing the communication between the backend and frontend.
 - Designed a command-line multimedia tool written in Rust. This tool could display, in full color and sound, almost all media formats including PNG, MP4, and GIF directly in your terminal using ANSI color sequences and a “TUI” library.
 - Authored a complete library implementation of AES-128, -192, and -256 in Rust, with a wrapper for command-line support.
 - Created a set of bash scripts for students that detects the student’s current assignment and runs 100 test inputs to determine if the student’s program is correct. All scripts were written in Bash, utilizing C++ to generate test cases.
 - Developed a highly configurable script utilizing Ansible and Python to remotely onboard multiple MacOS devices simultaneously. Includes installing & licensing software, creating users, and configuring security preferences.
 - Built an Ansible module in Python for idempotently installing software to MacOS devices. The module can take a DMG, PKG, or a URL to download either filetype and install them to their default location. It can read the metadata of these installers to skip installation if a newer or equal version of the software is already present.
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Ongoing Projects

- A personal website, written in TypeScript using ReactJS and Vite
- A JSON parsing library written in Rust