

Zachary Burgoon

zcburgoon@wpi.edu | 571-246-1219 | linkedin.com/in/zcburgoon | github.com/haqer-man

EDUCATION

Worcester Polytechnic Institute

Bachelor of Science in Computer Science and Robotics Engineering; Master of Science in Computer Science.

Worcester, MA

May 2028

EXPERIENCE

IT Specialist Intern

Densification, Inc.

June 2026 – Aug. 2026

Paeonian Springs, VA

- Researched and drafted a requirements and API pricing document for a location-based job site search feature, evaluating map APIs and database querying approaches.
- Managed Microsoft accounts, subscriptions, and company storage policies while supporting day-to-day IT operations.
- Diagnosed and resolved hardware and software issues; configured and deployed new devices for employees.

Freelance Arcade Repair Technician

Self-Employed

Summer 2026

- Diagnosed and repaired antique electromechanical arcade equipment, including pinball machines and jukeboxes.
- Troubleshooted electrical, mechanical, and control-system interactions to isolate faults and restore operation.

President

Flint Hill School Cyber Security Activity

Aug. 2023 – June 2024

Oakton, VA

- Led event coordination, competitions, and administrative operations for a for-credit cybersecurity club.
- Mentored students and competition teams while building a collaborative community around cybersecurity.

PROJECTS

C Shell and Interpreter

C

July 2026 – July 2026

- Built a command-line shell and interpreter in C, implementing process creation, command execution, and I/O redirection.

Java Shell and Interpreter

Java

July 2026 – July 2026

- Reimplemented a command-line shell and interpreter in Java using object-oriented design and language-processing concepts.

Unified Robotics IV Final Project

Python, Bash, ROS 2

May 2026 – May 2026

- Implemented mapping, localization, and path-planning for a non-holonomic robot using LiDAR as part of a team; robot completed SLAM across mazes of varying sizes.

WordLess <https://haqer-man.github.io/WordLess/>

JavaScript, HTML, CSS

Sept. 2022 – Sept. 2025

- Developed and hosted a full-stack interactive web app on GitHub Pages with persistent local storage for tracking user progress.

Sudoku

Python

- Rebuilt the Sudoku puzzle game in Python; documented the codebase with PyDoc and published on GitHub.

Weather Prediction ML Model

Python

- Built a machine learning model to predict weather conditions for Fresno, CA from a set of input data points.

SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, SQL, Go, Bash/Shell, MATLAB

Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Linux, Windows

Frameworks: Node.js, JUnit, ROS 2

Libraries: pandas, NumPy, Matplotlib, OpenCV, Dynamixel SDK

Security Tools: Burp Suite, Nmap, Metasploit, Autopsy, Ghidra, Cisco Packet Tracer

AWARDS & HONORS

- Regional Cyber Defender, VirginiaCode | May 2023 – May 2024
- National Cyber Scholar, CyberStart America | May 2022 – May 2023
- 2nd Place, Networking with Cisco Packet Tracer, CyberPatriot XV Platinum Division | Nov. 2023

CERTIFICATIONS

- GIAC Security Essentials (GSEC), SANS Institute | May 2024 – May 2028
- GIAC Foundational Cybersecurity Technologies, SANS Institute | June 2023 – June 2027