

Kalen Shamy

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WPI Computer Science student and 2x hackathon winner with full-stack and embedded programming experience seeking a Summer 2027 Software Engineering Internship.

EDUCATION

Worcester Polytechnic Institute

Worcester, MA

B.S. Computer Science | GPA: 3.83 / 4.00

May 2029

- ACM Officer - GoatHacks Hackathon Manager
- High Powered Rocketry Member - Programming
- IEEE Member
- Dean's List Recipient

WORK EXPERIENCE

Computer Science Peer Learning Assistant

Aug 2026 — Present

Worcester Polytechnic Institute

- Hosted Office Hours and Lab Sections, powering one-on-one and group discussion
- Graded assessments with detailed feedback to reinforce student learning
- Courses: Accelerated Introduction to Program Design

Software Engineering Intern

Dec 2025 — Jan 2026

BlockHaven

- Developed a real-time health data sharing system across mobile and web platforms
- Built UI and dashboard features for patient and provider-facing applications
- Built SDK to manage secure PHI data handling

PROJECTS + EXTRACURRICULARS

Advent of Racket

adventofracket.com

- Built advent calendar of functional programming problems inspired by Advent of Code
- Full-stack Django web-app hosted on Railway with GitHub OAuth and MongoDB storage
- Racket syntax highlighting in Monaco IDE; bundled Racket runtime into Railway deployment

Doorbell Thing

kalenshamy.com/doorbell

- GoatHacks '26 Best Hardware Winner
- Built with a XIAO ESP32-S3 Sense microcontroller, PlatformIO, and Vue
- Implemented audio streaming on the ESP32-S3 Sense synced with live video
- LiPo charger using ESP32-C3 as pass-through power with voltage monitoring
- Soldered THT + SMT; debugged hardware issues involving SD and GPIO conflicts

HiveMind

kalenshamy.com/hivemind

- Hack@URI '26 Hackathon Winner
- Taught programming fundamentals to three teammates
- Project management tool integrated with GitHub Issues

FIRST Robotics Competition

Sept 2022 — June 2025

- '24-'25 Team Captain and Lead Programmer
- Delegated tasks to subteam leads
- Worked with Columbia University to ensure lab access
- Raised the team's global rank by ~1200 of 3000 places

SKILLS

- **Programming Languages:** C, Python, TypeScript, Java, Lua
- **Tools:** Git, GitHub, PlatformIO, Docker, Figma