Jobs/Opportunities

[Entrepreneur in Residence – CMU Swartz Center and School of Computer Science](#)

Software Engineer and Infrastructure with Shelfmark (email resume and brief message to becky@shelfmark.com). See job description below.

⅃⁊ Shelfmark

July 29, 2025

Software Engineer
Pittsburgh, PA | Full-Time | On-site

About Us
Shelfmark is a fast-moving startup building custom machine vision systems for automated visual inspection in manufacturing. Our systems help factories catch defects before they ship, using real-time image capture and machine learning.

We're looking for a well-rounded engineer to help us build the software infrastructure that powers our deployed systems. You'll work across the stack — from backend services and deployment pipelines to the edge devices running at client sites. This role is ideal for someone who thrives on variety and enjoys building robust, scalable systems that span from cloud to hardware.

You'll collaborate closely with our ML and software engineers to support live products in the field. The focus is on infrastructure, backend development, and devops — with a strong secondary emphasis on managing and scaling the systems that run on the edge.

What You'll Do
- Design, build, and maintain backend services and infrastructure that support production deployments
- Develop tooling and pipelines to manage software releases, remote monitoring, and OTA updates
- Write production-grade code for internal systems and cloud deployed applications
- Work with ML engineers to deploy and monitor models in production
- Configure and support host machines running at the edge (Jetsons, industrial PCs, etc.)
- Help manage device fleets at scale — provisioning, logging, uptime, and updates
- Support live systems running in customer environments and continuously improve reliability

What We're Looking For
Background, major, or education level are not considered to qualify candidates for this position. Instead, candidates should possess the following skills:
- Strong backend engineering and devops experience (language-agnostic)
- Familiarity with building deployment pipelines, and monitoring systems
- Experience writing and shipping production code across a range of environments
- Comfort with edge hardware (or a willingness to learn) — Jetsons, industrial cameras, etc.
- Exposure to OTA update systems, device provisioning, or fleet management is a plus
- Generalist mindset — eager to dive into whatever the team needs, whether backend, infra, or edge
- Bonus: experience supporting ML or vision systems in production
- Bonus: experience with Typescript/Python

Compensation: Full-time Software Engineer will receive a competitive salary, healthcare benefits package, and would be considered for early employee equity compensation.

Location: The ideal candidate would be located in Pittsburgh, PA and willing to co-locate in person in the company's Uptown office.

To Apply: Please email your resume, a brief message, and any other relevant materials to becky@shelfmark.com.

Other Opportunities

<u>Join Forte Women In Business</u>! Forte Women in Business is an incredible opportunity for students, offering career certificate programs designed to enhance professional skills and improve job outcomes. Forte also hosts a variety of events, including networking opportunities, workshops, and speaker sessions that are highly beneficial for students looking to advance in business and entrepreneurship.

Chatham CWE FREE Business Counseling Funding Clinic

Office Hours

Chatham University Center for Women's Entrepreneurship

AlphaLab; AlphaLab Gear; Innovation Works: Sign up for office hours

Laconia Capital Group (Venture Capital Fund): Sign up for office hours

Resources

Unshackled Venture's Immigreat Community!

This is the preeminent community for immigrant founders, by immigrant founders. The vision for the Immigreat Community is simple: Immigrant founders connect with one another and build powerful relationships. To learn, share, and accelerate each other's success. Sign up here to join.

Join the CMU Entrepreneurship Slack

Join the Web3Pgh Community

CMU Alumni Community Entrepreneurship Group

99 Tartans: Connecting CMU Alumni Investors with CMU Founders

CMU Tech & Entrepreneurship Job Board

Black Tech Nation

Apply for CMU's Undergraduate Entrepreneurship Club I-Fund

Pittsburgh Startup Community Newsletter

Pittsburgh Startup Jobs (Innovation Works)

Join Pgh.RustBuilt.org: The Hub for Pittsburgh's startup community

Start-up Space

Coworking space at Fulton Commons