

EHU SHUBHAM KISHORE SHAW

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EDUCATION

• **M.S. Computer Science**, Worcester Polytechnic Institute Aug 2024 – May 2026

SKILLS

- **Programming & Scripting:** Python, Golang, C, JavaScript, Bash, gRPC, REST api
- **Cloud, DevOps & Automation:** AWS, GCP, Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions), Ansible, HashiCorp Vault
- **Embedded Hardware & Tools:** Linux Kernel, MicroPython, I2C/I3C, SPI, Aardvark, Logic Analyzer
- **Data & Testing:** MongoDB, Kafka, ELK, Pytest, JIRA, Agile

EXPERIENCE

Embedded Software Engineer Intern, Lightmatter, Boston, MA Jan 2025 – Dec 2025

- **OS & Low-Level Dev:** Developed a custom USB communication stack in C, and implemented MicroPython on Infineon boards, and customized Xilinx Linux kernels with device trees and root filesystems.
- **HIL & Testing:** Engineered a robust Hardware-in-the-Loop pipeline using **Aardvark** and **Pytest** to verify critical state machine flow on Laser-microcontroller; integrated AI analysis for failure suggestions.
- **Firmware Protocols:** Developed embedded firmware in C for versioning and automated builds via **GitHub Actions**, supporting **I2C/I3C** protocols and utilizing a **Logic Analyzer** for debugging.
- **DevOps & Monitoring:** Implemented advanced **Ansible** configurations and created System-D files for restart. And a smart **Grafana** dashboard with an AI analysis app for real-time developer solutions.

DevOps Engineer, Edelweiss, Mumbai, India

Jun 2022 – Aug 2024

- Engineered **CI/CD** pipelines in **Python** and **Bash** within **Jenkins**, Integrating it with **Jira** approval cutting deployment time by 90%.
- Automated infrastructure via **Python/Ansible**; deployed applications using **Docker/Kubernetes**.
- Built Custom **ELK**-based logging and monitoring for real-time performance insights across all production systems.

PERSONAL PROJECTS

Quick-send AI

[QuickSend AI](#)

Automated personalized recruiter outreach and built an AI-driven talent pool, resulting in a 70% reduction in manual drafting time and 45% increased candidate engagement. **users: 843**

Cross-Platform On-Device ML Model Deployment (ONNX/React Native)

[Portfolio](#)

Developed a mobile app React-expo(IOS/ANDROID) for offline, on-device ML wound analysis using ONNX, achieving high performance by eliminating cloud dependency.

Context-Aware Screen Automation Utility for macOS

[Portfolio](#)

Engineered a context-aware macOS utility that uses AI in real-time screen analysis to Generate professional messaging and email responses based on screen content via a simple hotkey using your favorite AI without context.

ACTIVITIES & LEADERSHIP

- **Harvard Hackathon Winner** – Led a 4-member team to build an **Ethereum/IPFS** peer-review platform in 24 hours. Active participant in weekly hackathons.
- **Hardware & Robotics Enthusiast** – Personal projects include building and flying FPV drones, constructing a custom 3D printer, and RC car racing.