

EHU SHUBHAM KISHORE SHAW

ehushubham@gmail.com • +1 7744189894 • [LinkedIn](#) • [GitHub](#) • [Portfolio](#)

EDUCATION

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- 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 ONNIX, 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

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- **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.