Myrrh Khan

linkedin.com/in/myrrh-khan/ | myrrhkhan.github.io

SKILLS

Languages: C/C++, Rust, Java, Kotlin, Python, SQL (Oracle, SQLite), JavaScript/TypeScript (SvelteJS, React), HTML/CSS, Matlab
Tools, Libraries, Other: Pandas, NumPy, Matplotlib, PyTorch, Tensorflow, SQLAlchemy, Flask, WebGL, Android Studio, Jetpack, ROS 1, JUnit, Docker, AWS, GitHub Actions, Agile (SCRUM)
Awards: **1st Place** at Draper Capstone Symposium, **Finalist** at WPI RBE Project Presentation Day, GoatHacks 2024 **Honorable Mention**, WPI Presidential Scholarship ($22,000/year)

EDUCATION

Worcester Polytechnic Institute   Worcester, MA
BS in Computer Science, Minor in Robotics Engineering | GPA: 3.63/4.0   *August 2022 - May 2025*
- **Relevant Courses**: Deep Learning for Perception, Software Engineering, Mobile and Ubiquitous Computing, Databases, Distributed Systems, Advanced Computer Networks, Unified Robotics II, Computer Graphics
- Extracurriculars: WPI Orchestra (bassist) and Pep Band, Alpha Phi Omega Coed Service Fraternity (Historian, Weekly Service Chair)

EXPERIENCE

Agentic Workflow Engineer Intern   Alexandria, VA
MARi   *May 2025-Present*
- Automating account invoicing workflow with AI agents via Python and Google's Agent Development Kit

UAV-UGV Collaboration Researcher   Cambridge, MA
Draper   *August 2024-May 2025*
- Created scalable, object-oriented C++ codebase for ESP-32 code and I2C-enabled gyroscope
- Developed system to reliably and autonomously land and charge a drone onto a ground vehicle via AprilTags. **93% success rate**
- Achieved **50x** UAV battery life increase, expanding feasibility for UAV use in **search and rescue operations**
- **Won 1st place** at Draper Capstone Symposium
- **Reached finals round** at WPI Project Presentation Showcase

Software Developer, Researcher   Worcester, MA
WPI RoboCareLab   *October 2024 – May 2025*
- **Enhanced dementia patient care** by creating a RESTful Flask web portal with patient memories, allowing Pepper robots to interact with patients

Software Developer   Worcester, MA
WPI OpenSTEM   *October 2023 – October 2024*
- Developed lightweight frontend for XRP educational robotics kits in SvelteJS
- Optimized ultrasonic sensor response time in MicroPython
- Used by **thousands of students** in K-12 and undergrad classes

PROJECTS

Violet: An Award-Winning Handwriting to Text Converter App
Rust, React, SvelteJS, Python, Tensorflow, AWS, GitHub Actions   *January 2024 – Present*
- **Won honorable mention** at GoatHacks 2024 Hackathon
- Created **full-stack** app in **two days** to address lack of handwriting-to-text solutions on laptops, trained model with **67% accuracy**. Porting to AWS

Window Tracker
PyTorch, Blender   *September 2024*
- Generated custom dataset simulating windows for drone to fly into with a variety of backgrounds and augmentations
- Trained PyTorch model and achieved **80% accuracy**