Luke Stevenson

Boston, MA • Stevenson.luk@northeastern.edu • Linkedin

EDUCATION

Northeastern University, Boston, MA 2025 - 2027
Master of Science in Robotics
Relevant Coursework: Robot Sensing and Navigation, Robot Mechanics and Control, Mobile Robotics

University of Denver, Denver, CO 2021 - 2025
Bachelor of Science in Computer Science, Minors in Mathematics and Computer Engineering
Study abroad: Waseda University, Tokyo, Japan
Relevant Coursework: Machine Learning, Computer Vision, Software Engineering, Advanced Digital Design

TECHNICAL SKILLS

Programming**:** Python, C/C++, Verilog, Linux**,** Docker, CI/CD Pipelines, Software Architecture, Github
Robotics**:** ROS 2**,** SLAM, Robot Simulation, Embedded Systems, Raspberry Pi, Sensor Fusion, Edge Computing
AI/ML**:** Reinforcement Learning, Deep Learning (CNNs), Machine Learning Model Training, Computer Vision

WORK EXPERIENCE

Software Engineer July 2024 – July 2025
Dreamface Technologies, Denver, CO

- Developed software interface for 'Ryan', a Cognitive Behavioral Therapy bot facilitating AI-driven patient interaction
- Built a text-to-speech pipeline, implemented speech-to-text models, and created a cognitive impairment test for seniors
- Designed and deployed an NFC-enabled admin terminal for managing secure user authentication and access management

Research Intern June 2024 – September 2024
University of Denver, Denver, CO

- Built a dataset and conducted a socio-technical assessment of 272 Android mobile healthcare applications from the Google Play Store
- Utilized MobSF, RiskInDroid, and OWASP Mobile Audit to evaluate app security, user privacy, and data practices as well as analyzing 2.56M user reviews with NLP sentiment analysis to determine usability
- Co-authored a peer-reviewed paper accepted and published by IEEE BuildSec 2025

Robotics Intern June 2024 – September 2024
University of Denver, CO

- Contributed to the development of BrushE, an assistive robot designed to promote oral care for children
- Developed embedded control logic using microcontrollers and Python to coordinate actuators and display interfaces
- Integrated hardware components including sensors, display modules, and motor drivers into a stable working prototype

PERSONAL PROJECTS

- Jango Quadruped Robot - Designed a ROS 2-based autonomous quadruped integrating IMU and ToF Camera sensors, ORB-SLAM3, and YOLO object detection
- Power Outage Scraper - Built Dockerized nationwide outage aggregation system with API normalization, PostgreSQL storage, and Grafana monitoring
- Home Lab Infrastructure - Architected multi-node Linux environment for AI workloads, process monitoring, and distributed services

PUBLICATIONS

- Stevenson, Luke and Das, Sanchari. "Your Doctor is Spying on You: An Analysis of Data Practices in Mobile Healthcare Applications". In IEEE BuildSec 2025 Conference Proceedings, March 2025