

EDUCATION

Northwestern University
Master of Science in Robotics

Evanston, IL
Dec 2021

Purdue University
Bachelor of Science in Computer Engineering

West Lafayette, IN
May 2020

Technical Skills

Programming: Python, MATLAB, Java, C, R, Verilog, C++, Bash, Linux, SQL, PHP
Robotics: Robot Operating System (ROS), SLAM, Gazebo, Rviz, Turtlebot3, Baxter, Arduino
Cloud: AWS EMR (PySpark/Python), Athena, S3, Lambda, Step Functions, Azure,
Others: QGIS, Git, (ESP32, STM32, PIC32) Microcontroller, JIRA, Pytest, MacOS, Windows

Experiences

Galileo Financial Technologies
Software Engineer – Risk & Fraud

Sandy, UT (Remote)
Feb 2022 – Present

- Developed and automated unit testing process/pipeline for Dynamic Fraud Detection Engine using **Pytest**, improving reliability and reducing failure rate of rule change updates
- Built a pipeline in **AWS EMR** that automated data collection, data cleaning, and engineering to ensure scalability and improved ML training time to help determine fraudulent transactions
- Participated in design meetings by providing meaningful suggestions that helped the team progress through the design planning process as well as learned more about industry trends and practices

Symbotic
Machine Learning Intern

Wilmington, MA
Jun 2021 – Sep 2021

- Collected multiple months worth of training data for Bot Health Monitor ML model to upload into **Azure** blob containers and documented information about data on **JIRA**
- Implemented a process to categorize and sanitize incoming data stream to gather ML model training data

Purdue University
Undergraduate Teaching Assistant

West Lafayette, IN
Jan 2020 – Aug 2020

Course: ECE 20875, Python for Data Science

Electrical and Computer Engineering (ECE) Shop

Jan 2020 – Aug 2020

Managed inventory of ECE Shop to help students locate spare electronic parts for lab courses as well as fix broken lab equipment and hand out lab kits to students taking various ECE lab courses

Georgia Institute of Technology
Civic Data Science REU, Undergraduate Researcher

Atlanta, GA
May 2019 – Jul 2019

- Conducted NSF funded research on fire truck delays at traffic light intersections by analyzing fire truck location data to determine behavior at intersections using **QGIS**
- Created analysis-based visualizations using leaflet.js: <https://cav.ce.gatech.edu/>

Florida International University
NSFDOD REU, Undergraduate Researcher

Miami, FL
May 2018 – Aug 2018

- Conducted NSF funded research on routing protocols for ad-hoc networks for swarms of drones
- Compared routing protocols based on how well drones routed data from point to point using **MATLAB**

Academic Projects

Robotic Arm-Arduino

- Controlled a Robotic Claw using an **Arduino** IDE in a semester-long project for Senior Design
- Created a servo motor equipped robotic arm that was controlled using PWM signals transmitted over bluetooth from a user-controlled glove powered by **ESP32** chip

Pong-Embedded C

Programmed Pong on an LCD display using Embedded **C** by controlling paddles using joysticks wired on breadboard as a final project for Embedded Systems Design Class

Steganography-Python

Embedded a colored image inside an image carrier and then extracted the same embedded image out without affecting its visual appearance using Qt Designer, a GUI designer, to implement program