

# Shrey Shah

4th Year Electronics Engineer  
& Full-Stack Developer

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## Core Skills:

**OOP and Other Languages:** C++, Python, Java, Matlab, SQL, PHP, JavaScript, ARM Assembly, Bash, Git

**Products and Frameworks:** Docker, ZeroMQ, MariaDB, Google Charts, Bootstrap, Pandas, NumPy, SciPy, BeautifulSoup.

**In Progress/Familiarity:** React, Django, Tensorflow, Pytorch, SVM's, AirTable, Flutter (Android)

## Work Experience:

Intern | General Dynamics Missions Systems – Canada:

### Software Engineering - Land Systems

April 2020 - Present

- Developed backend logic software for position reporting systems following NMEA Standards
- Collaborating with team members on firmware development and hardware testing
- Utilized robot and g test suite to create scaled end to end tests
- SAFe 5.0 training and development cycle

### Full Stack Engineering - Underwater Warfare Systems

Sept 2019 - April 2020

- Responsible for firmware updates and flashing system state
- Built feature to pinpoint and alert user on a sonar platform used to detect underwater moving entities
- Led development on adding a new UPS and creating initial API to interact with product within system.
- Optimized and created messages to be sent via a custom variant of OpenDDS across systems.
- Designed and implemented layout update of main dashboard with Java Spring and QT GUI (C++)
- Support adoption of the Elasticsearch, Logstash and Kibana on Linux system, replacing Portainer

Campus STEM Tutor | University of Regina

April 2016 – Dec 2019

- Created a learning environment for students in STEM Courses, resulted in an increase of grades by 15%.

Realtor Assistant | Century 21 Bamber Realty:

July 2015 – Aug 2015

- Automated excel spreadsheets with Python and optimized data entry methods.

## Projects:

### Whac-a-mol | ARM Assembly, STM32F Development Kit

- Created an algorithm to give an incrementally challenging “levels” of randomized LED's turning on to simulate a whac-a-mol carnival game. Included starting sequence, fail state, 3 “Lives” before game ended.

### Lyra | HTML5, CSS, JavaScript, AJAX, PHP, SQL, REST Paradigm

- Built from scratch, a website similar to twitter. Allowed for consistent updates and notifications from users.

### LabBuddy 5.0 | Hardware Test Board

- Assembled a laboratory testing kit that allowed for easy testability with a Temperature Sensor, Voltage Regulator, Dynamic Resistor, Low Pass Filter, and Relay. This allowed younger students to test circuits without needing to go the lab.

## Education:

Electronics Systems Engineering | University of Regina

Sept 2016 - Present