

# Shrey Shah

4th Year Electronics Engineer  
Student  
& Full-Stack Developer

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## Core Skills:

**Languages:** Python, Java, C/C++, JavaScript, ARM Assembly, Bash, MySQL, Spring

**Frontend Technologies:** Figma, React, Electron, Flutter (Android)

**Backend and Cloud:** Docker, MongoDB, GCP, AWS, Cassandra, MariaDB, Firebase, GraphQL, Kafka, Node.js, PostgreSQL, Elasticsearch, Jenkins

## Work Experience:

Intern | **General Dynamics Missions Systems – Canada:**

**Software Engineering - Land Systems**

April 2020 – Aug 2020

- Collected performance data and other metrics on several sub-services, documented behavior and implemented optimizations within the codebase.
- Designed robust logic for position reporting systems, decreased time for intra-system messages by 60ms.
- Created and managed microservices for reliable data transfer over TCP for cross-system data transfer.
- Built automated, end-to-end test suites in both Robot Framework (Python) and Google Test (C++), for architecture reliability.

**Full Stack Engineering - Underwater Warfare Systems**

Sept 2019 – April 2020

- Built scalable product features in C++ and Java, interfacing design daily with key stakeholders and architects.
- Led effort to incorporate and adopt ELK stack for high-frequency data collection. Optimized ability to parse over 5GB of log messages sent from Logstash by using dynamic templates in Elasticsearch.
- Designed and implemented a sonar systems dashboard refresh with QT GUI (C++).
- Created a high performance, real-time data exchanging micro service containerized within Docker. Service optimized to decrease memory usage and processor load.

Campus STEM and English Tutor | **University of Regina**

April 2017 – Aug 2019

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

## Projects:

**Iconbite** | JavaScript, React, Firebase, Material-UI

- Built an image repository website with modern web frameworks like React and with Material-UI as well as a scalable backend with Google Firebase. Supports multi-user authentication and large image support.

**Collagify** | Python3, Tesseract OCR, OpenCV, PIL

- “Collagifying” images from an ingredients list.

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

- Embedded Programming/Computer Architecture Project. Programmed board to play a Whac-A-Mol arcade game with LED's and buttons. Manipulated GPIO, Stack/Memory Deployment, and Control Structures.

## Education:

**BASc in Electronics Engineering and Minor in CS | University of Regina**

Sept 2016 - Present

Microelectronics, Computer Networks, Digital Communications, Computer Architecture, FPGA Design, Object Oriented Programming, Data Structures and Algorithms, Web Development.