

# Erlind Polovina

COMPUTER ENGINEERING STUDENT

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## Skills

**Programming** Python, JavaScript, Node.JS, C++, C, Matlab, R, Bash,  $\text{\LaTeX}$ , ARM Assembly, VHDL  
**Web** REST APIs, HTML5, CSS3, Express, jQuery, AJAX, JSON, XML, Socket.io, Bootstrap, Selenium  
**Databases** MongoDB, SQL, SQLite  
**Applications** Unix Shell, Vim, Git, Docker, Visual Studio, Active Directory, Microsoft Visio, Microsoft Office Suite

## Education

### Simon Fraser University

Burnaby, British Columbia

BACHELOR OF APPLIED SCIENCE — ENGINEERING SCIENCE

Expected June, 2021

- Computer Engineering Specialization

## Experience

### BC Cancer Research Center

Vancouver, British Columbia

TIER 1 IT HELPDESK TECHNICIAN

Apr. 2017 - Sep. 2017

- Set up, deployed and maintained 500+ Windows, Mac and Linux machines used for cancer research
- Created Python script used by team that generated user login information and reduced user creation time by 20%
- Managed 500+ users, security groups and DHCP Filter using Microsoft Active Directory
- Improved communication between users through phone, email, and ManageEngine Ticketing system
- Interacted with researchers and directors to solve tickets in a friendly and efficient manner

## Technical Projects

### NodeJS 3D Tic-Tac-Toe Game

Simon Fraser University

INTRODUCTION TO WEB DEVELOPMENT

Jan. 2018 - Apr 2018

- Developed back-end server using Node.JS that would serve HTML, CSS and JavaScript files and interact with database
- Created multiple REST APIs that used AJAX to ensure communication between client and server
- Implemented Web Sockets to enable multiple users to play game in real time
- Created login and registration API that would identify the user playing the game
- Deployed web app to Heroku using Docker containers

### TrackPoint iOS App

Simon Fraser University

SOFTWARE ENGINEERING I

Sep. 2018 - Dec 2018

- Designed and implemented a database class using Swift to save and retrieve user information from the iOS app
- Deployed a NodeJS web server on Heroku to interface the app with the MongoDB database
- Tested all database APIs using Postman to ensure server was responding correctly
- Maintained and updated requirements and features documentation and monitored meeting minutes for team

### Flask Web App

Simon Fraser University

DATABASE SYSTEMS I

Nov. 2018 - Dec 2018

- Developed a web app using Flask to manage video store rentals by creating APIs to login, check rentals and rent movies
- Created SQL Queries to check if user exists, view current user rentals and if movie is being rented
- Parsed input files to create tables and load data into a SQL database hosted on Microsoft Azure

### SFU Formula Electric

Simon Fraser University

EMBEDDED SYSTEMS AND ELECTRICAL TEAM

Sep. 2016 - June 2017

- Utilized TI micro controller to send sensor readings through UART to a serial terminal
- Configured two micro controllers to send data to a CAN bus system and communicate with each other
- Designed a switching circuit using a micro controller, sensors and MOSFets to trip when excess current is detected
- Researched motor controllers and sensors to monitor and control different parameters during motor operation

## Hobbies

 Working on cars, driving  Biking, Weightlifting, Skiing, Hiking  Learning new languages