

YASH SARDHARA

Computer Engineering Student

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EXPERIENCE

Undergraduate Teaching Assistant

UBC Department of Computer Science

September 2019 – Ongoing The University of British Columbia

- Assisted students in course work during lectures for the introduction to computation in engineering course
- Monitored students during programming Labs and Examinations
- Evaluated student examinations

PROJECTS

TagAlong

UBC Software Engineering

September 2019 – November 2019 The University of British Columbia

- Developed an android application to suggest potential carpooling matches to users going on the same journey
- Programmed front end user interface in Java using Android Studio
- Used Firebase Cloud Messaging to implement notifications, Google Navigation API and external Facebook authentication API
- Constructed class diagrams, sequence diagrams and use-case diagrams for the design of the application

ARC4 Cipher

UBC Digital System Design

October 2019 The University of British Columbia

- Designed a digital circuit using system verilog to crack two ARC4 encrypted messages in parallel
- Incorporated on-chip memories with ready-enable interface for an efficient digital circuit design
- Tested the circuit by simulation on ModelSim - Altera and by synthesis for De1-SoC using Intel Quartus Prime

EXTRACURRICULAR ACTIVITIES

Institute of Electrical and Electronics Engineers

UBC IEEE Student Branch

September 2018 – Ongoing The University of British Columbia

- Represented UBC IEEE in organization of UBC Tech Career Fair 2019 & 2020
- Organized and participated in IEEEExtreme 2019 and 2020, a global 24 hour programming competition
- Organized and participated in Rogers-MobileEdgeX hackathon; Explored applications for new technologies such as 5G internet network and edge computing

SailBot Design Team

UBC SailBot

February 2019 – June 2019 The University of British Columbia

- Developed a C++ program to incorporate bathymetry data as heuristic for global path finding algorithm of the autonomous sailboat

EDUCATION

B.A.Sc | Computer Engineering

The University of British Columbia

September 2017 – May 2022

- Co-op: Available for 4-16 months starting May 2020

SKILLS

Programming Languages

Java Python C C++ R

Assembly / Hardware Description Languages

x86 y86 Arm System Verilog

Tools

Android Studio IntelliJ
Pycharm Microsoft Visual Studio
Microsoft Office GitHub
GitBash ModelSim - Altera
Altera Monitor Program Intel Quartus

General

Git UML Debugging LaTeX
Matlab Microsoft AZURE
Raspberry Pi Arduino De1SoC

COURSEWORK

Computation

- Software Engineering
- Operating Systems
- Digital Systems Design
- Data Structures & Algorithms
- Artificial Intelligence
- Micro-controllers

Mathematics

- Multivariate Calculus
- Differential Equations
- Mathematical Proof
- Statistics
- Linear Algebra