

# Aryan Gandhi Computer Engineering Student

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## TECHNICAL SKILLS

### Hardware

- Microcontrollers
- Oscilloscopes
- Multimeter
- Breadboard
- DE1-SOC Board

### Software Tools/Frameworks

- MATLAB
- SolidWorks
- Cypress
- Flutter
- Microsoft Office
- GitHub
- Quartus
- ModelSim
- Linux

### Programming

- C
- C++
- Python
- Java
- Javascript
- React and Redux
- SQL
- Verilog
- ARM
- HTML and CSS

## EDUCATION

University of British Columbia  
*Bachelor of Applied Science - Computer Engineering*

May 2024

## CO-OP WORK EXPERIENCE

SAP, Vancouver, British Columbia  
Agile Developer

May 2021 – Dec 2021

- Formulated bug fixes and developed novel features through hands-on programming design utilizing Javascript to deliver an improved product to clients
- Developed, maintained and executed automated testing using Jasmine and Cypress frameworks
- Adopted lean and agile software development principles by collaborating in a team setting and using online tools such as GitHub and JIRA to organize workflow
- Interpreted and improved code by working on a codebase using debugging tools and end-to-end software development

## DESIGN TEAMS

UBC Launchpad, University of British Columbia  
Software Developer

Sept 2020 – Present

- Partnered with other developers and designers to ideate and build a project for 4-8 months
- Learned different languages such as Typescript and React.js in order to implement frontend and deployed SQL and Postgres for backend

Mars Colony, University of British Columbia  
Architecture Team

Sept 2020 – Present

- Responsible for designing components, ensuring team efficiency and production of high-quality work
- Primary designer for Hydroponics Project, currently in researching and data collection phase; future plan includes CAD design using SolidWorks

## TECHNICAL PROJECTS

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### Emotion Detector and Song Suggester, University of British Columbia

Apr 2021

- Utilized machine learning tools and algorithms to infer the user's mood and produce a corresponding Spotify playlist
- Programmed the web application using Django, HTML, CSS and JavaScript

### RISC Machine, University of British Columbia

Nov 2020

- Designed and accomplished a 16-Bit instruction supported CPU on an FPGA Board DE1-SOC utilizing Verilog, Quartus, and ModelSim

### Graph Abstract Data Type, University of British Columbia

Nov 2020

- Implemented a graph interface using two different graph representation
- Developed several algorithms, such as Breadth and Depth First Search
- Utilized graph interface to mimic a similar interface used in social media

### Image Processing, University of British Columbia

Oct 2020

- Coded an image processor using Java and IntelliJ IDE in order to perform a mirror, rotate, and green screen function
- Collaborated using GitHub, creating branches and managing merge conflicts to optimize group functionality
- Constructed robust testing strategies using JUnit to ensure well-written code and branch coverage in addition to general correctness
- Maintained best coding practices by writing method specifications to assure readability and maintainability of code

### Autonomous Claw, University of British Columbia

Feb 2020

- Prototyped and manufactured metal claw using hand tools, optimizing its ability to collect a variety of objects
- Created Arduino code in C which communicated with a sonar sensor and servo motor, giving the claw its autonomous nature
- Collaborated in a team setting, organized meetings, followed strict deadlines, and presented claw through a professional poster

### Simon Game, University of British Columbia

Nov 2019

- Designed a memory game using C programming language and DAQ Simulator

## STUDENT TEAMS

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### Developer Students Club, University of British Columbia Relations Director

Aug 2020 – July 2021

- Plan events and arrange speakers for workshops and events
- Improved written and verbal communication and project management skills by planning events

## AWARDS

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Seymour Schulich Academic Excellence Entrance Scholarship

2019

Alberta Children's Hospital Scholarship

2019

Alexander Rutherford Scholarship

2019

## INTERESTS AND HOBBIES

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Computing, Basketball, Volunteer Work, Health & Well Being, Puzzles, Reading