

# Ekam Gill

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## Education

### University of Victoria

Bachelor of Science, Computer Science (3rd year)

Victoria, B.C.

Expected Graduation Date: April 2025

## Technical Skills

- Object-oriented programming in Java
- Low-level programming in C
- Data analysis and scientific computing with Python
- Statistical computing and graphics with R
- Unix scripting
- Proficiency in Microsoft 365 products
- Full-stack web development using HTML, CSS, Javascript, and React
- Embedded systems programming in AVR Assembly
- Version control with Git and GitHub
- Familiarity with Windows, MacOS, Linux, and Unix

## Technical Projects

### Group Calendar Website

November 2022 - Present

- Collaborated with a team of developers to design and implement a group calendar website using Javascript and React
- Utilized responsive design techniques to ensure website compatibility across different devices and screen sizes
- Participated in team meetings and code reviews to ensure project success and quality

### Python Art Generator

April 2023

- Developed a program to generate HTML and SVG code, using Python
- Managed sequential text files using the Python file I/O API
- Practiced incremental software development

### Airline Analytics

February 2023

- Developed a Python program to provide deep insights into airline data based on user input, using Python libraries such as Pandas and NumPy
- Conducted data cleaning, manipulation, and exploratory analysis on large data sets to identify key trends and patterns
- Gained experience in data analysis, Python programming, and software development

### Airline Route Generator

February 2023

- Designed and implemented a C program to generate airline routes based on user input
- Employed Unix filters to manipulate and output airline data based on user-defined parameters
- Demonstrated proficiency in C programming, algorithm design, and Unix commands

### Morse Code LED Display

November 2022

- Programmed an Arduino using AVR Assembly to flash LEDs in Morse code, displaying an understanding of low-level programming languages and LED behaviour
- Constructed strong problem-solving skills by overcoming challenges related to hardware interfacing, debugging, and optimization

## Work Experience

### Zen Maker Lab Inc.

Victoria, B.C.

Engineering Instructor & Projects Developer

June 2023 - September 2023

- Assisted students in coding and programming projects, including the use of Arduino microcontrollers to build and program robots, facilitating their understanding of hardware-software interactions
- Collaborated with a multidisciplinary team to design and customize educational programs, aligning content with curriculum standards and age-appropriate learning objectives

### AB Superclean Delivery Ltd

Surrey, B.C.

Receptionist

January 2020 - May 2023

- Managed a high volume of incoming emails, ensuring prompt and accurate responses to customer inquiries
- Applied strong critical thinking skills to troubleshoot and resolve complex issues related to package tracking and delivery, breaking down problems into smaller tasks