

# Abhay Khosla

THIRD YEAR SOFTWARE ENGINEERING · SEEKING SOFTWARE ENGINEERING INTERNSHIPS

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## Education

### University of Calgary

B.SC SOFTWARE ENGINEERING

Calgary, AB

Expected Apr 2024

- **Relevant Coursework:** Introduction to Programming (C/C++), Data Structures and Algorithms (Java), Object-Oriented Programming (Java), and Discrete Mathematics
- **Clubs and Involvements:** First-Year Scholar, Indian Students Association, Schulich Aerospace Organization, ESS Peer Mentorship Program, and Schulich Ignite

## Skills

**Languages** Java, Python, JavaScript, HTML, CSS, Bootstrap, C/C++, Processing  
**Technologies** Bootstrap, Git, Github, Figma, React, Microsoft Azure(DevOps), Microsoft Dynamics CRM

## Work Experience

### Kobold Completions Inc.

SOFTWARE DEVELOPER

Calgary, AB

May. 2021 - Present

- Responsible for preparing, importing, and entering historical data into the new Kobold Digital Backbone.
- Working with existing data sets in **Microsoft Excel** (CSV) and developed multiple scripts to input data into **Dynamics CRM**.
- Working closely with the **DevOps** team to ensure data integrity.

### Hoodoo Foods Inc.

WEB DEVELOPER

Calgary, AB

Dec. 2020 - Mar. 2021

- Tailor coding requirements for the website creation, including e-commerce capability and specialized scripts enforcing the security of the site.
- Perform user testing and tested websites prior to going live on the domain.
- Implement website and integrate solutions into business operations.

### AASEE (Association for the Advancement of Science and Engineering Education)

FRONTEND WEB DEVELOPER INTERN

Calgary, AB

Jun. 2020 - Jan. 2021

- Developed **HTML/CSS/JavaScript** fundamentals and discussed web application designs and ideas through weekly meetings.
- Leading a team of **4 engineers** in developing the website and utilizing **GitHub/Git** for collaboration.
- Optimized for a quick, responsive, visually appealing website using **React-Bootstrap** to resolve cross-browser and cross-platform issues

## Extracurricular Activities

### Schulich Ignite (Formerly Google IgniteCS)

EXERCISE MARKING COMMISSIONER

Calgary, AB

Apr. 2021 - Present

- Working closely with the Executive team to deliver weekly Python lessons to high school students.
- Attended and participated in weekly meetings and actively provided suggestions for improvement and advancement of the program.
- Mentored and taught basic programming principles to high school students in community outreach program through **Python** and **Processing**

### Schulich Aerospace Organization Research

AVIONICS TEAM LEAD SOFTWARE

Calgary, AB

Mar. 2020 - Present

- Active involvement in all projects related to the on-board electronics of the rocket by developing the in house flight board which increases the **data logging by 50 %**
- Developing projects for communications, recovery system triggering, propulsion system triggering, in-flight data monitoring, processing, and in-flight decision making.
- **Coordinate with 7 other sub team leads** throughout the organization on collaborative projects for system integration of the navigation of the rocket.
- **Leading 8 other team members**, holding weekly meetings and efficiently delegating workload.

### Multiple Organizations

PARTICIPATION IN VARIOUS CASE COMPETITIONS

Calgary, AB

Jun. 2020 - Present

- 3rd place finish in 2020 BounceBack YYC Hackathon; presented on the impact of COVID-19 on the sports and recreational events in the city and with plans to engage post pandemic response in sports and recreational.
- 4th place finish in 2020 Schulich Engineering Competition and Commerce (Consulting), lead a team on the use of robots as waiters in restaurants as the new trend in the service industry.

## Technical Projects

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### Twitter Bot | [Code](#)

PYTHON, TWEETPY

- Built a **Python** automating script which can reply to a user when mentioned with Hello World, included the library of **Tweepy**
- Scripted an application on Python which can Retweet and Reply to a given number of tweets in particular search criteria.

### Knockout Kings | [Code](#)

JAVA

- Utilized various libraries, classes and functions to ensure modularity and readability of code for others.
- Utilized Object-Orientated Programming Principles such as Classes, Abstraction and Encapsulation.

### Reading Handwritten Digits | [Code](#)

PYTHON, TENSORFLOW

- Able to read handwritten digits with an accuracy of 97 % in Python using **Tensorflow**, and **NeuralFlow**