

Abhay Khosla

THIRD YEAR SOFTWARE ENGINEERING · SEEKING SOFTWARE ENGINEERING INTERNSHIPS

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Education

University of Calgary

Calgary, AB

B.Sc SOFTWARE ENGINEERING

Expected Apr 2024

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

Skills

Languages Java, Python, JavaScript, HTML, CSS, Bootstrap, C/C++, SASS, Processing
Technologies Bootstrap, Git, Github, Figma, React

Work Experience

Hoodoo Foods Inc.

Calgary, AB

WEB DEVELOPER

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 go live on the domain.
- Implement website and integrate solutions into business operations.
- Generate feedback for various stakeholders with design phase under tight deadlines.

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

Calgary, AB

FRONTEND WEB DEVELOPER INTERN

Jun. 2020 - Nov. 2020

- Developed **HTML/CSS/JavaScript** fundamentals and discussed web application designs and ideas through weekly meetings
- Designed a website using **Figma** to encourage underrepresented minorities to pursue careers in STEM
- 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
- Completed the **full development process**, including creating mock designs, implementation, design reviews and product presentation.

Starbucks Corporation

Calgary, AB

BARISTA

Mar. 2018 - Jan. 2020

- Prepared and served drinks and food in accordance with health codes and café standards.
- Proactively worked side by side with other team members to ensure consistent, high quality customer service was maintained and presented to each customer.
- Greeting customers, provided information for specials and promotions, and setup advertisement displays for new incoming merchandise, beverages and bakery items.

Extracurricular Activities

Schulich Ignite (Formerly Google IgniteCS)

Calgary, AB

EXERCISE MARKING COMMISSIONER

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

Calgary, AB

AVIONICS TEAM LEAD SOFTWARE

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.

University of Calgary

Calgary, AB

UNDERGRADUATE RESEARCH ASSISTANT

Aug. 2020 - Sept. 2020

- Using Networking systems and algorithms to develop an exclusive app for the **Microsoft HoloLens** and collaborating in a team of **10** engineers.
- Utilizing **Unity** to develop an app aimed for students education who might have challenges in their learning experience.

Multiple Organizations

Calgary, AB

PARTICIPATION IN VARIOUS CASE COMPETITIONS

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

Twitter Bot | Code

PYTHON, TWEETPY

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