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-Orientated 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

Kobold Completions Inc.   *Calgary, AB*

Software Developer   *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 converting into a format to upload.
- Working closely with the **DevOps** team to ensure data integrity.

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

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.

University of Calgary

UNDERGRADUATE RESEARCH ASSISTANT

Calgary, AB

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

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

Twitter Bot | Code

PYTHON, TWEEPY

- 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**