# Arjun Mehta

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## EDUCATION

**University of Alberta** Class of 2024
*Computer Software Engineering, BSc (Co-op Program)* *Cumulative GPA: 3.3 / 4.0*

- Coursework covers data structures, object-oriented programming, algorithms, and software specifications

## SKILLS

**Technical Skills**

- Python, Java, C++, C, JavaScript, ReactJS, NodeJS, TypeScript, HTML/CSS, Git, Figma

**Natural Languages**

- English, Hindi, Spanish (elementary)

## WORK EXPERIENCE

**PulseMedica** January 2022 - Present
*Software Development Intern*

- Developed features for a laser eye surgery device and application, focusing on the C++ back end and React.js/Electron front end
- Designed and implemented the application user interfaces for both retinal imaging and laser eye surgery
- Spearheaded the creation and implementation of a shared React.js components library
- Developed over 20% of the test cases for the company's Health Canada ITA submission in Kiwi TCMS and wrote their related automated tests
- Implemented the device's laser and firmware control C++ modules which used the Windows API for USB communication with an FPGA and laser

**Highwood Emissions Management** May 2021 - August 2021
*Software Intern*

- Managed and developed the (greenhouse gas) Emissions Health Check web application with React.JS
- Devised and implemented a weighted scoring algorithm with over 26 variables to help clients better understand their greenhouse gas emissions
- Setup and maintained Google Firebase hosting for the application including a real time customer database

**Topl** April 2020 - August 2020
*Engineering Intern*

- Developed an API wrapper enabling Python developers to access Topl's core blockchain infrastructure
- Worked closely with the CTO defining requirements and the project pipeline
- Created an integrated cryptographic key manager for use by internal applications consolidating multiple manual key management processes
- Ensured that both JavaScript and Python versions exhibited cross key compatibility
- Completed the full product development cycle from planning to publishing on PyPI

## NOTEWORTHY PROJECTS

**Kumquat NFT Sandbox** 2022

- Worked with a team to create a node wrapper module for testing NFT creation and distribution with the Hedera testnet.

**basketball_analysis Python Module** 2020

- Collaborated on building a python package to predict NBA players next season stat lines based on previous season averages
- Project placed within the top 3 (unranked) of over 20 teams

## EXTRACURRICULARS

**U of A Computer Engineering Club** September 2020 - Present
*Co-Vice President Social* March 2022 - Present

- Responsible for organizing event for computer engineers and the engineering community

**Alberta Competitive Programming Club** February 2021 - Present
*Member*

- Attend weekly meetings and complete Kattis algorithm problems
- Participated in the Calgary Collegiate Programming Contest 2022