

Abhro Chowdhury

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**Engineering
Co-op Program**

ACADEMIC & CO-OP STATUS

BSc in Computer Engineering - Software Co-op Option, University of Alberta	2026
Cumulative GPA:	3.3
Academic Terms Completed:	3/8
Work Terms Completed:	0
Term Length / Availability:	4 months / May 2023

EXPERIENCE

Full Stack Developer, Intern

Sep 2022 - Present

48HourDiscovery, Edmonton, AB

- Building web applications and implementing new features within cloud website utilizing React.js, Node.js, and Flask
- Debugging issues within internal cloud platform to mitigate site downtime and boost company workflow
- Evaluating code to maintain compatibility with varying browsers, devices, and operating systems
- Created new functionality to enable users to share data from protected company sites, while ensuring proper user access levels through MySQL database and python
- Deploying features allowing users to leverage select data on protected company sites, ensuring smooth connection between MySQL database and front-end
- Designing program enabling users to automatically tabulate sequencing data from lab results

Software Engineer, Intern

May 2022 - Aug 2022

Canadian Engineering and Inspection LTD (CANEIL), Edmonton, AB

- Developed software to automate several internal tasks, such as optimizing time tracking system for employees and contractors and auto-generating corresponding documents
- Created data analysis software using Pandas, OpenPyxl, and Matplotlib for major client, allowing efficient analysis of 4,000+ spreadsheets
- Coded Python scripts to analyze and manage pipeline and rotating equipment data, reducing time required for process engineer's analysis
- Wrote software to automate reporting process for large-scale projects, bringing average report writing time down by 50%
- Implemented significant front-end changes to company website with goal of revamping design to modern industry standards

TECHNICAL SKILLS

Languages: Python, C++, HTML, CSS, Javascript, SQL, Typescript, Matlab, Assembly

Developer Tools: VS Code, Google Cloud Platform, API's

Technologies/Frameworks/Libraries: Node.js, React.js, Express.js, GitHub, WordPress, Bootstrap, Tkinter, CTkinter, Django, Mongo DB, Flask, MySQL, OpenPyxl, Pandas, Matplotlib

PROJECTS

Autonomous Robotic Vehicle Project (ARVP)

University of Alberta, Edmonton AB

- Contributing to code enabling autonomous movements of "Arctos" submarine robot
- Collaborating with students across multiple engineering disciplines to ensure full functionality of "Arctos" submarine robot

Company Investigator

HACKED 2023 (Hackathon Project), Edmonton AB

- Built an interactive, modern GUI using Tkinter and CTkinter, allowing a user to search a companies' name in order to query a plethora of financial data such as cash flow statements, balance sheets, stock price, etc
- Leveraged FMP API to pull relevant financial information, and used algorithms to manipulate the API given .json's into readable data to be presented to GUI