Abhro Chowdhury

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EDUCATION

University of Alberta — Edmonton, AB
Bsc in Computer Engineering (Co-op)- Software Option — *Sept. 2021 – May 2026*

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks and Technologies: React, React Native, Node.js, Flask, Tailwind CSS, Google App Scripts, REST API's
Libraries: NumPy, Pandas, Matplotlib, OpenCV, Scikit-learn, TensorFlow, Tkinter

EXPERIENCE

Software Engineer, Intern — May 2023 – Present
Encepta — *Edmonton, AB*

- Automated telecommunication inspections with React Native app and image classification models, bringing in significant revenue by securing a 6-figure contract with client
- Empowered users with an intuitive UI, enabling manual adjustments to image classification models, reducing inspection time from days to minutes
- Designed and implemented a web app (HTML, CSS, JavaScript) enabling seamless version control of shared apps with major clients, minimizing the impact of app issues and ensuring smooth operations
- Engineered ArcGIS-based app for efficient management of 1 million+ telecommunication pole records using Python scripts hosted on AWS Lambda
- Developed "Talk to Your Data" web application by training OpenAI's GPT-4 model using LangChain, in turn mitigating difficulties with data storage across multiple platforms

Full Stack Engineer — Sept. 2022 – Present
48HourDiscovery — *Edmonton, AB*

- Utilized React.js for front-end development and Flask for back-end implementation to create, enhance, and fix web applications
- Revamped company's drug sequencing system, enabling employees to seamlessly select and sequence multiple data sets simultaneously, resulting in a 50% reduction in drug sequencing time
- Designed and created a dedicated section on the internal website, enabling users to collaboratively create, edit, and save documents, securely storing them in the database for easy retrieval
- Enhanced data privacy and security by implementing appropriate access requirements through Flask back-end and MySQL, ensuring sensitive information was only accessible to authorized personnel

Software Engineer, Intern — May 2022 – August 2022
CANEIL — *Edmonton, AB*

- Developed Python-based internal desktop app to automate time tracking systems for employees and contractors, by generating invoices, pay slips, and other related documents
- Created data analysis software using OpenCV, Pandas, OpenPyxl, and Matplotlib for major client, allowing efficient analysis of 4,000+ Piping and Instrumentation Diagrams
- Coded Python scripts to analyze and manage pipeline and rotating equipment data, reducing time required for process engineer's analysis by 50%
- Wrote software to automate reporting process for engineering inspections with Pandas, Numpy, Docx, bringing average report writing time down from 8+ hours to 1 hour

PROJECTS

CleverCV | *OpenAI GPT-4 API, HTML, CSS, Javascript, Flask* — June 2023 - Present

- Developed CleverCV, a web app utilizing Open AI API to enhance and optimize resumes following industry best practices, including the STAR and XYZ methods
- Implemented robust user authentication for secure login, ensuring confidential resume data storage.
- Leveraged Open AI API to rewrite and streamline resume bullet points, by training GPT 4 model to follow specific pre-defined criteria
- Incorporated parsing functionality to critique and provide personalized feedback on user resumes, offering actionable insights for improvement