Alexander Proskiw

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Education

Bachelor of Computer Science | University of British Columbia **Expected May 2025**

- GPA: 4.30/4.30

Work Experience

Software Engineer Intern | Kardium **Sept 2023 – Dec 2023**

- Engineered Java tools to extract millions of previously unavailable cardiac ablation datapoints, enabling MATLAB optimization of key model parameters to improve atrial contact scan accuracy by 15%
- Developed Java algorithms to achieve 99.5% efficiency in heartbeat detection while minimizing the number of heart monitoring devices connected to a patient
- Reduced algorithm runtimes by 80% through the identification and resolution of bottlenecks, utilizing caching, persistent variables, and computation vectorization techniques
- Revitalized legacy code by reengineering classes/functions and introducing unit testing, boosting maintainability and integration across deployed software versions

Environmental Engineer | Envirochem Services **Feb 2019 – Aug 2022**

- Managed 20 environmental consulting projects ($5,000 to $100,000 each)
- Supported development of an environmental data analysis program which replaced excel macros and reduced project reporting times by 25%
- Achieved $100,000 in cost savings by through data-driven optimization of the water treatment process at a marine terminal expansion project

Projects

Artificial Intelligence Recipe Emission Calculator

- 2nd place winner (sustainability category) at nwHacks 2024, Western Canada's largest 24-hour hackathon
- Engineered and stacked multiple AI models to parse ingredients from recipes, calculate carbon emissions, and intelligently suggest eco-friendly alternatives
- Integrated AI models with a full stack React and Flask chrome extension, providing real-time sustainable cooking recommendations to users across any recipe website

MERN Exercise Tracker

- Developed an exercise tracker using React, Node.js, and Express.js, enabling CRUD operations for users
- Established RESTful APIs for efficient data flow and storage with a MongoDB database

Artificial Intelligence YouTube Extension

- 2nd place UBC BCS 2023 hackathon winner
- Merged the OpenAI API with a unique prompting algorithm to enable users to summarize or query entire YouTube videos within seconds
- Utilized JavaScript, HTML, and CSS to embed the extension into the YouTube user interface

Skills

Languages: Java, Python, C, C++, JavaScript, TypeScript, HTML, CSS, SQL

Frameworks: React, Node.js, Express.js

Databases: MongoDB, PostgreSQL