

JOSEPH MITCHELL

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SKILLS

LANGUAGES: C#, C++, Python, JavaScript, TypeScript, Node.js, React.js, HTML, CSS

DATA TOOLS: pandas, NumPy, Keras, TensorFlow

TECHNOLOGIES: Git, SolidWorks, Unity, Postman

WORK EXPERIENCE

PROJECT PLANNER

PuraJuniper

Toronto, ON

April 2022 - Present

- Pitched business opportunity for deploying app suite throughout Newfoundland and Labrador health authorities
- Facilitated meetings between PuraJuniper executives and local industry professionals leading to the development of a new major project

JUNIOR SOFTWARE DEVELOPER

PuraJuniper

Toronto, ON

January 2022 - April 2022

- Developed **React-based applications** through agile methodology to create and display clinical practice guidelines complying to FHIR standards and guidelines.
- Conducted multiple meetings to pitch new **UI mock-ups** created in Figma.
- Represented JuniperCDS at the March 2022 Infoway Projectathon, **completing over 8 tests** related to **interoperability** and **exchange of health data** within Canada.

ONLINE LEARNING ASSISTANT

University of Waterloo Engineering Department

Waterloo, ON

May 2021 - August 2021

- Pioneered development of website for the Biomedical Engineering department utilizing **JavaScript libraries** to display curriculum information in a viewer friendly manner.
- Aided professors in increasing accessibility of teaching materials.

PROJECTS

BEAT SLASHER MOBILE GAME

Personal Project

Dec 2020 - January 2021

- Developed mobile rhythm game for **Android** and **IOS** utilizing **Unity 2D** and **C#**.
- Co-designed original graphics, sprites, scripts, and prefabs.

PARKINSON'S DISEASE DETECTOR

Personal Project

Jan 2021

- Implemented and displayed a Parkinson's Disease Detector using **Jupyter Notebook**.
- Utilized **pandas** to read, analyze, and process the UCI ML Parkinson's dataset.
- Leveraged classifiers **Random Forests** and **Convolutional Neural Networks**.
- Achieved accuracy score of **93.8%** utilizing **Keras Sequential Classifier**.

EDUCATION

UNIVERSITY OF WATERLOO

BASc. Biomedical Engineering

Waterloo, ON

Sept 2020 - Apr 2025

Cumulative GPA: 89.38%

Relevant Coursework: **Data Structures and Algorithms | Computer-Aided Design | Linear Signals and Systems | Circuits, Instrumentation, and Measurements**

LEADERSHIP/VOLUNTEERING

Held various leadership roles including coach for youth baseball and volleyball teams.