

Mizuki Shindoh

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TECHNICAL SKILLS

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

Developer Tools: Git, GitHub, Jira, VS Code, Visual Studio, PyCharm, Jupyter Notebook, IntelliJ, MySQL

Frameworks & Libraries: spaCy, TensorFlow, Spark NLP, Node.js, Mocha, Chai

EXPERIENCE

Junior Software Developer, Part-time

Sep 2024 – Present

LUCID Vision Labs, Inc.

Richmond, BC

- Continued taking ownership of software plugin development for machine vision cameras with machine learning capabilities and multi-head configurations, working across both Windows and Linux operating systems

Junior Software Developer Co-op

Sep 2023 – Aug 2024

LUCID Vision Labs, Inc.

Richmond, BC

- Implemented a series of 3 software plugins and 3 publicly available C++ code examples to perform object detection and classification with a machine vision device, providing an improved user experience for clients
- Expanded a strategy to split interleaved image channels from multi-head cameras using C++, C, C#, and Python, enhancing data handling and processing efficiency
- Implemented software plugins to display images from multi-head cameras supporting 80 in-house pixel formats
- Designed and implemented a comprehensive testing strategy covering unit, functional, and UI tests

AI Analyst

May – Sep 2023

BC Cancer

Kelowna, BC

- Contributed to a clinical Natural Language Processing project to extract medical information from unstructured pathology reports with AI technologies
- Executed Classification, Named Entity Recognition and Relation Extraction on pathology reports with spaCy, TensorFlow and Spark NLP API and assessed the performances of pre-trained Machine Learning models
- Presented the research project at the BC Cancer Summit 2023 and e-Health 2024 Conference and Tradeshow

EXTRACURRICULAR ACTIVITIES

UBC AI Safety Intro to AI Alignment Reading Group

Oct 2024 - Present

- Actively engaged in a discussion focused on responsible AI development, staying up-to-date on cutting-edge topics

PROJECTS — PORTFOLIO

Insight UBC | *TypeScript, Node.js, Express, Mocha, Chai*

Sep - Dec 2022

- Developed a web application with a data processor to parse, validate and store data of UBC courses and rooms from JSON and HTML files
- Executed Test-Driven Development (TDD) and Agile/Scrum methodologies as a team
- Implemented a RESTful API server with four endpoints to allow the user to add, delete and query the dataset

Disaster Tweets Text Classification | *Python, spaCy, TensorFlow*

Aug 2023

- Performed text classifications on Twitter posts to identify Tweets about disasters with both spaCy and TensorFlow
- Visualized training and validation accuracy to verify the effectiveness of training and early stopping

HACKATHONS

Fastr Food | MHacks 14 | *JavaScript, HTML/CSS, jQuery, Bootstrap, Firebase, Google maps*

Oct 2021

- Best Beginner Hack, Best Use of Google Cloud - Use any Google Cloud product - 2nd place**
- Developed the front end of an application that gathers information on waiting times at different dining halls and provides users with the fastest way to get food, while communicating remotely with 3 teammates

EDUCATION

University of British Columbia

Sep 2021 - May 2026 (expected)

Bachelor of Science in Computer Science

Langara College, Dean's Honour Roll

Jan 2020 - Aug 2021

Associate of Science Degree in Computer Science