

# Mizuki Shindoh

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## TECHNICAL SKILLS

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

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

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

## EXPERIENCE

### Junior Software Developer

Sep 2023 – Aug 2024 (Co-op), Sep - Dec 2024 (Part-time)

*LUCID Vision Labs, Inc.*

*Richmond, BC*

- Implemented Machine Learning-powered object detection functionalities with 3 models on machine vision cameras by implementing software plugins with improved user interface and progress updates for Windows and Linux
- Developed data processing interfaces using C++, C, C#, and Python for multi-head camera outputs to efficiently and accurately de-interleave image channels while support 80 in-house pixel formats
- Demonstrated advanced machine vision capabilities of cameras by producing public code examples incorporating external and internal libraries to enhance client implementation and to showcase usability of the product
- Constructed unit and functional test frameworks for robust plugin validation, ensuring reliable performance

### AI Analyst

May – Sep 2023

*BC Cancer*

*Kelowna, BC*

- Contributed to a clinical Natural Language Processing research, extracting medical data from unstructured pathology reports using spaCy, TensorFlow, Spark NLP and Healthcare NLP API
- Conducted and evaluated machine learning tasks such as classification, named entity recognition, and relation extraction in Python to improve AI model performance in medical information processing
- Effectively communicated the findings to over 100 industry professionals at the BC Cancer Summit 2023 and the e-Health 2024 Conference and Tradeshow, contributing to industry knowledge on AI applications in healthcare

## PROJECTS

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

- Enabled course and room data processing and validation by developing a web application, featuring RESTful API endpoints for data manipulation while practicing Agile methodologies and Test-Driven Development as a team of 2
- Optimized data management by designing and developing backend solutions for data validation and storage

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

- Developed a text classification model to identify disaster-related tweets, integrating early stopping and accuracy visualization for effective model training

### Java Bookshelf Application | *Java, JUnit, IntelliJ, Java Swing*

- Designed and implemented a desktop application that allows the user to store and edit information of books
- Achieved steady functionality and persistence by implementing unit tests with JUnit and database in JSON format

## ACTIVITIES & INTERESTS

### UBC AI Safety Intro to AI Alignment Reading Group

Oct 2024 - Present

- Engaged in discussions on responsible AI development and alignment, focusing on ethical and safety considerations

## HACKATHONS

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

- Best Beginner Hack, Best Use of Google Cloud 2nd place out of 59 teams**
- Enabled providing navigation to the fastest food options with aggregated dining hall wait times by developing the front-end of the web application in 24 hours while collaborating with 3 members oversea

## EDUCATION

### University of British Columbia

Sep 2021 - May 2025 (expected)

*Bachelor of Science in Computer Science*

### Langara College, Dean's Honour Roll

Jan 2020 - Aug 2021

*Computer Science, Transferred to University of British Columbia*