

Mizuki Shindoh

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TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, TypeScript, HTML/CSS, SQL
Developer Tools: Git, GitHub, Jira, VS Code, Visual Studio, IntelliJ, Jupyter Notebook
Frameworks & Libraries: spaCy, TensorFlow, Spark NLP, Node.js, Express.js, D3

EXPERIENCE

Junior Software Developer

LUCID Vision Labs, Inc.

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

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 supporting 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

BC Cancer

May – Sep 2023

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 & PORTFOLIO

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

- Enabled data processing and validation of UBC's course and room data with a web application, featuring RESTful API 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

Chrome Driver Domain Specific Language | Java, JUnit, IntelliJ, Selenium

- Implemented a programming language to help the user manage Chrome tabs with custom configuration
- Developed the evaluator module of the program, integrating Selenium API with our parsed programming language

VOLUNTEER EXPERIENCE

AI Research Participant

Women in AI Canada Research Lab

Sep 2024 - Present

Python, Pillow

- Conducted data pre-processing and Exploratory Data Analysis (EDA) for the Dyslexia handwriting image dataset

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 overseas

EDUCATION

University of British Columbia Bachelor of Science in Computer Science

Sep 2021 - May 2025

Langara College (Dean's Honour Roll) Majored in Computer Science, Transferred to UBC

Jan 2020 - Aug 2021