

Mizuki Shindoh

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SKILLS

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

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

Frameworks & Libraries: OpenCV, .NET

EXPERIENCE

Junior Software Developer

LUCID Vision Labs, Inc.

Jul 2025 – Present

Burnaby, BC

- Engineered an optimized image processing and storage pipeline for **3D coloured point clouds**, improving data serialization efficiency and ensuring high-fidelity spatial reconstruction

Junior Software Developer

LUCID Vision Labs, Inc.

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

Richmond, BC

- Developed cross-platform (Windows/Linux) machine learning plugins for **object detection and classification**, enhancing the user interface to provide real-time inference feedback
- Built low-level data processing interfaces in **C++, C, C#, and Python** to de-interleave multi-head camera image channels and support diverse in-house pixel formats
- Authored public-facing SDK code examples and technical documentation to demonstrate advanced machine vision capabilities, directly accelerating client integration timelines
- Designed and deployed **unit and functional testing frameworks**

AI Analyst

BC Cancer

May – Sep 2023

Kelowna, BC

- Led clinical Natural Language Processing (NLP) research to automate data extraction from unstructured pathology reports using **spaCy, TensorFlow**, Spark NLP and Healthcare NLP API
- Optimized and evaluated model performance for Named Entity Recognition (NER) and Relation Extraction tasks, achieving higher accuracy in identifying critical medical metadata
- Presented research findings to 100+ professionals at the **BC Cancer Summit 2023** and **e-Health 2024 Conference and Tradeshow**, highlighting the impact of AI on clinical workflow efficiency

PROJECTS & PORTFOLIO

Chrome Driver Domain Specific Language | *Java, JUnit, IntelliJ IDEA, 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

Python Function Call Dynamic Analyzer | *Python, JavaScript, D3, HTML/CSS*

- Developed a web application that analyzes Python programs by tracking and summarizing execution counts of different functions across various executions as a team of 5

Cocoa Delicacy Data Visualization | *JavaScript, D3, HTML/CSS*

- Designed and implemented an interactive visualization story that explores a dataset of chocolates
- Developed radar charts and a word cloud to allow the users to control the charts, utilizing a D3-based library

EDUCATION

Bachelor of Science in Computer Science *University of British Columbia*