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   Sep 2023 – Aug 2024 (Co-op), Sep 2024 - Present (Part-time)
LUCID Vision Labs, Inc.   *Richmond, BC*

- Developed high-performance software plugins for machine vision cameras across Windows and Linux, enabling ML-powered object detection and classification
- Developed data processing interfaces using C++, C, C#, and Python to streamline multi-head camera outputs with interleaved image channels, supporting 80 in-house pixel formats
- Produced public code examples to showcase advanced machine vision capabilities, improving client use-case applications
- 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 structured medical data from unstructured pathology reports using spaCy, TensorFlow, Spark NLP and Healthcare NLP API
- Conducted and evaluated machine learning tasks (Classification, NER, and Relation Extraction) to improve AI model performance in medical information processing
- Presented findings at the BC Cancer Summit 2023 and the e-Health 2024 Conference, contributing to industry knowledge on AI applications in healthcare

PROJECTS - PORTFOLIO ↗

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

- Built a web application for UBC course and room data processing, featuring RESTful API endpoints for data manipulation (add, delete, query) using Agile methodologies and Test-Driven Development
- Implemented backend solutions for data validation and storage, optimizing data management

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

EXTRACURRICULAR ACTIVITIES

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*   Oct 2021

- **Best Beginner Hack, Best Use of Google Cloud - Use any Google Cloud product - 2nd place**
- Developed the front-end of a web application that aggregates dining hall wait times and provides navigation to the fastest food options

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