

Pareesh Madan

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TECHNICAL SKILLS

- **Languages:** Java, JavaScript, Python, C, C++
- **Technologies:** Docker, Git, GCP, SQL

WORK EXPERIENCE

Software Engineer Co-op

CIBC

May 2025 – August 2025

Toronto, ON

- Developed and maintained functional test cases for middleware and infrastructure tools, improving quality assurance coverage and strengthening critical thinking by identifying edge cases and potential failures.
- Collaborated with cross-functional teams by participating in peer reviews, team stand-ups, and incident documentation, enhancing communication skills and contributing ideas to improve automation practices and internal workflows.

Software Developer Intern

Bio-imaging Research Solutions Inc.

May 2024 – August 2024

Guelph, ON

- Developed a prototype neural network using TensorFlow for image classification to detect diseases in cow lymph nodes, trained on a dataset of over 3,500 annotated DICOM-formatted X-ray images
- Designed and implemented a Python-based image format converter program, streamlining the preprocessing of DICOM images for training the neural network

PROJECTS

Bazel Open Source Contribution ♦ [github](https://github.com/pmadan/bazel)

- Introduced a retry mechanism to handle socket exceptions during repository downloads, enhancing reliability
- Implemented two unit tests to ensure the functionality and robustness of the feature

Personal Portfolio Website ♦ pmadan.com

- Utilized HTML, CSS, and JavaScript to implement responsive design principles, ensuring optimal viewing across various devices, enhancing accessibility and user engagement
- Used JavaScript to add interactive features, improving portfolio interactivity and functionality

Pathfinding Visualizer ♦ [github](https://github.com/pmadan/pathfinding-visualizer)

- Designed an intuitive user experience with features such as start and end point placement, obstacle creation, and algorithm selection, enabling users to customize and experiment with different scenarios
- Applied OOP to create modular and extensible code, allowing for easy integration of new features

Pokemon Team Builder ♦ [github](https://github.com/pmadan/pkmnteambuilder)

- Utilized HTML, CSS, JavaScript, PokeAPI, SQL Database, and Python (Flask) to integrate dynamic features, allowing users to easily select, customize, and visualize their Pokemon teams in real-time

EDUCATION

Bachelor of Computing, Computer Science (Co-op), Business Data Analytics Minor
University of Guelph

September 2023 - Present
Guelph, ON

- Cumulative GPA: 90%
- Relevant Courses: OOP, Data Structures, Software System Development & Integration, Operating Systems