

Adam Mehmed Avdic

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Education

Simon Fraser University

September 2020 – Present

Bachelor of Science, Computing Science

Burnaby B.C

Technical Experience

Mechanical Engineer Intern

May 2023 – August 2023

The AME Consulting Group Ltd

Vancouver B.C

- Assisted in designing mechanical components using CAD software (e.g., Revit, AutoCAD).
- Supported senior engineers in developing and testing prototypes.
- Prepared technical reports and documentation.
- Attended and contributed to team meetings, providing insights and updates on assigned tasks.

Projects

Personal Portfolio Website (Personal Project)

May 2024 – Present

- Developed a responsive and visually appealing website using HTML, CSS, and JavaScript, ensuring a seamless user experience across various devices and screen sizes.
- Implemented media queries and flexible layouts to create a mobile-friendly navigation menu and adaptive content sections, enhancing accessibility and usability.
- Utilized JavaScript to add dynamic functionality, such as a hamburger menu for mobile navigation.

Machine Learning Gait Analysis (CMPT 353, Data Science)

January 2024 – May 2024

- Worked with a team to analyze human gait patterns using smartphone sensor data and machine learning techniques using Python.
- Applied Bayesian, kNN, and SVM classifiers to training and testing datasets for predicting activity-related categories, achieving measurable accuracy.
- Executed linear regressions to correlate step frequency with height, age, and weight, producing detailed plots and statistics.

Simple Processor Pipeline Simulator (Personal Project)

January 2024 – May 2024

- Implemented a comprehensive simulation of a 5-stage in-order pipeline using C++, modeling the precise movement of instructions through fetch, decode, execute, memory, and write-back stages.
- Designed and utilized custom data structures, including deques, to efficiently manage instruction queues and ensure accurate pipeline behavior and performance metrics.
- Developed robust test cases and automated unit tests for pipeline instruction simulation.

Technical Skills

- Languages: C/C++, Python, Java, JavaScript/HTML/CSS, SQL, x86.
- Frameworks: React, Node.js, Angular.
- Tools: Git, Linux.