

# Adam Mehmed Avdic

ama193@sfu.ca | 778-908-8676 | Burnaby, BC | [GitHub](#) | [Personal Website](#)

## Technical Skills

---

- Languages: C/C++, Python, Java, JavaScript/Typescript/HTML/CSS, SQL, x86.
- Frameworks: React, Node.js, Angular.
- Tools: Git, Linux, MS Office, AWS, Android Studio.

## 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

---

### Weather App (Personal Project) [Link](#)

July 2024 - Present

- Designed and executed a weather application using JavaScript to asynchronously fetch weather data from the OpenWeatherMap API, ensuring real-time updates and efficient handling of API responses and errors.
- Developed dynamic UI components that display weather information, including temperature, humidity, and weather conditions, with relevant emojis.
- Incorporated robust error handling mechanisms to manage and display user-friendly error messages for invalid inputs or failed data fetches, thereby improving the application's reliability and user interaction.

### Machine Learning Gait Analysis (CMPT 353, Data Science) [Link](#)

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.

### Mountain Messenger (SFU Hackathon) [Link](#)

May 2023

- Developed a client-server application using Python and UDP sockets, enabling real-time message translation between English and a custom "Mountain" language.
- Ensured bi-directional communication by translating incoming messages from English to Mountain and outgoing messages from Mountain to English on both client and server sides.
- Implemented a translation module that leverages a dictionary to convert messages between English and Mountain, utilizing text file processing and dictionary operations.

## Education

---

### Simon Fraser University

September 2020 – Present

*Bachelor of Science, Computer Science*

*Burnaby B.C*