

# Adam Mais

[adammais10@gmail.com](mailto:adammais10@gmail.com) | [linkedin.com/in/adam-mais](https://linkedin.com/in/adam-mais) | [github.com/adammais](https://github.com/adammais) | [Amaising.ca](https://Amaising.ca)

## EDUCATION

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### University of British Columbia, Vancouver

Sept 2021 - Apr 2025

*BSc in Computer Science - Software Engineering, Relational Databases, AI, Hardware and OS*

### University of Victoria

Sept 2019 - Aug 2021

*BSc in Computer Science - Algorithms and Data Structures, Calculus, Linear Algebra*

## EXPERIENCE

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### Full-Stack Developer Co-op

Sept 2023 - Apr 2024

*BC Liquor Distribution Branch | Java Spring, JUnit, Maven, Tomcat, Git, Azure*

*Burnaby, BC*

- Developed Java Spring applications, supported by JUnit tests that integrated Mockito
- Created sophisticated GitHub Action workflows that automated application packaging, executed unit tests, tracked code coverage, and deployed the application
- Streamlined a key project's deployment by transitioning from an EAR file on Wildfly to a single WAR file on Tomcat on Azure WebApp, boosting efficiency and reducing cost
- Implemented unit testing, code coverage analysis, and mutation testing as a proof of concept in a pivotal project

### IT Engineer Co-op

Sept 2022 - Dec 2022

*Jusaves (a start-up company with 5 employees) | Python, Selenium, Pandas, React Native, Git*

*Remote, BC*

- Web scraped data into a Pandas data frame using Python and Selenium, and cleaned the data using Excel
- Provided maintenance coding on a parking application built in React Native

## PROJECTS

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### Multiplayer Dominoes Game for the Web | *React, Socket.IO, Phaser*

[Link](#)

- Users can create or join a game room and their actions will be propagated to other users' browsers
- Dominoes can be dragged and dropped, and automatically orient themselves

### InsightUBC Full-Stack Web Application | *TypeScript, REST, JSON, HTML*

- Allowed users to gain insights on UBC courses and buildings by querying on historical data
- Implemented the dataset controller, which parses XML and HTML files, and a query controller, which handles queries in the form of JSON strings
- Created web server with REST endpoints to allow the front end to interact with the dataset and query controller via HTTP requests

### Condotel Booking Database Application | *Java, Swing, MySQL*

- Analyzed booking requirements of condotel owners, designed ER diagram and schema, then normalized all tables
- GUI created with Java Swing and connected to a Java application layer which passed queries to a MySQL database
- Allowed users to add bookings, view bookings, cancel bookings and view employee status at condotels

### Calendar Application | *Java, Swing, JUnit*

[Link](#)

- Allowed users to add recurring events and remove events from the calendar, and save and load the contents of the calendar using a JSON file
- Ensured the application worked correctly and had full code coverage using JUnit tests
- Documented with a UML diagram and Requires, Modifies, Effects clauses

## TECHNICAL SKILLS

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**Languages:** Java, Python, MySQL, JavaScript, TypeScript, HTML, CSS

**Frameworks:** Java Spring, JUnit, Mockito, React, Mocha

**Developer Tools:** Git, GitHub, Azure, Apache Maven, Apache Tomcat, Linux, Postman, Agile Methodologies

**Libraries:** Selenium, Pandas, Socket.IO, Bootstrap

## AWARDS AND CERTIFICATIONS

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**Certifications:** Microsoft Azure Fundamentals (AZ-900), National Lifeguard, Small Vessel Operator Proficiency (SVOP)

**Awards:** UVIC Entrance Scholarship, Loblaw's Scholarship, BC School Sports Vancouver Zone Scholarship