

# Melissa Louise Bangloy

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## EDUCATION

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### Vanier College

Montreal, QC

*AEC Software Development: Secure Desktop, Mobile & Web Applications* September 2024 - November 2025

- **Relevant Coursework:** Programming Fundamentals, Data Structures, Database Management Systems, Algorithms and Data Structures, Object-Oriented Paradigm, Financial Data Analysis, Business Intelligence

## PROJECTS

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### WhiskerWatch: Full-Stack Pet-Sitting App | *Java, Spring Boot, PostgreSQL, React*

- Designed RESTful APIs using Spring Boot to support booking, user management, and search features within a scalable client-server architecture.
- Architected a responsive React interface leveraging component-based design and state management, accelerating UI rendering and supporting dynamic user interactions across all device sizes.
- Integrated frontend and backend systems to enable efficient data flow, ensuring scalable and maintainable full-stack application architecture.

### PrintCraft: Full-Stack E-Commerce Platform | *Python, PostgreSQL, Flask, HTML, CSS, JavaScript*

- Developed a full-stack web application delivering secure user authentication, product browsing, shopping cart, and checkout workflows, supporting complete e-commerce functionality from end to end.
- Designed a layered MVC architecture (controller, service, repository) to improve scalability and long-term maintainability, reducing coupling across application modules.
- Implemented CSRF protection, bcrypt password hashing, and server-side input validation, hardening application security and ensuring data integrity across all user-facing flows.

### Deez Queez: Web Quiz Application | *JavaScript, HTML, CSS, NodeJS, PostgreSQL*

- Constructed dynamic frontend components supporting multiple input formats (radio, checkbox, text), enhancing interactivity and engagement across all quiz types.
- Deployed the application to a live production environment (<https://dqueez.com/>), enabling real-time access and validating end-to-end functionality under production conditions.
- Leveraged Trello and Git branching workflows within an Agile development process to manage task progression across backlog, in-progress, and completed stages, improving team coordination and delivery consistency.

## WORK EXPERIENCE

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### Fujitsu Network Communications

Montreal, QC

#### *IT Support Specialist*

July 2023 - December 2024

- Executed post-upgrade validation and troubleshooting across network infrastructure including firewalls and IP-based systems, reducing operational incidents and improving system stability.
- Diagnosed and resolved technical issues across multi-environment systems, collaborating with cross-functional teams to uphold data security standards and ensure production continuity.
- Developed structured troubleshooting workflows to systematically isolate and resolve recurring infrastructure issues, strengthening production support capabilities.

### Volkswagen

Montreal, QC

#### *Operations Support Representative*

August 2023 - January 2024

- Performed high-accuracy validation of financial and contractual documentation against strict SLA requirements, applying structured quality control processes to maintain zero-error data integrity across lien registration workflows.
- Identified and resolved record discrepancies using structured verification workflows, strengthening audit readiness and maintaining compliance integrity across lease agreement processing.
- Supported transactional and administrative processes in a high-volume production environment, applying strong analytical thinking to flag and resolve exceptions.

## SKILLS & INTERESTS

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**Skills:** Java, Python, HTML, CSS, JavaScript, PostgreSQL, Git, C#, VS Code, Visual Studio, Linux, Docker

**Interests:** Web Development, AI & Machine Learning, Music, Art, Badminton