

# Alessandro Baldassarre

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## SKILLS

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- JavaScript/TypeScript (React.js, Node.js, Express.js), HTML & CSS (Tailwind), Python, Java, C++, C, MySQL, MongoDB, Git
- Full-Stack Web Development, Microsoft Suite (Power BI, Excel, Power Automate), Microsoft Azure (Azure Data Factory), AWS (S3, Lambda, DynamoDB)

## WORK EXPERIENCE

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### RESTIV Technology Inc.: Student Developer

August 2024 – April 2025

- Designed and implemented automation solutions for data workflows and system integrations, streamlining internal business operations and reducing manual processes.
- Built and deployed cloud-based **ETL pipelines using Azure Data Factory**, improving data ingestion reliability and enabling faster analytics.
- Developed and maintained integrations with external APIs (**ArrowSphere, Metabase, Horizon3, Intercom, Azure DevOps**) to enable seamless data exchange across platforms.
- Contributed to an **incident response automation system**, helping reduce manual intervention and improving response consistency during critical events.
- Wrote and optimized **SQL queries** for data analysis and transformation, ensuring data accuracy and system reliability.
- Collaborated in an **agile environment**, participating in sprint planning, peer code reviews, and CI-driven development.

## PROJECTS

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### RehabQuest: AHS Hackathon || TypeScript, React.js, Python, AWS, Unity (C#), Git

July 2024

- Developed a **VR game** for children undergoing rehabilitation, using **Unity and AWS** to provide interactive educational activities.
- Built a **React.js and Django** web application to display performance metrics and progress tracking.
- Implemented **secure authentication and API communication**, ensuring data integrity and usability.

### MyMovieList: Google AI Hackathon || React.js, Express.js, MongoDB, Git

April 2024 – May 2024

- Developed a **movie recommendation system** utilizing **Google's Gemini AI** to personalize suggestions based on user preferences.
- Designed and implemented **REST APIs** for user interactions, optimizing movie search and profile management.
- Applied **agile development practices**, working iteratively to improve the UI and backend logic.

### Flight Reservation App: Jav, Git

November 2023 – December 2023

- Designed and developed a **Java-based flight reservation system** with role-based access for admins, airline agents, passengers, and guests, modeling real-world airline workflows.
- Implemented core booking features including **flight management, passenger manifests, and seat selection via a graphical seat map**, applying object-oriented design principles.
- Emphasized **system design and architecture**, documenting system behavior and data flow using **UML sequence diagrams and state transition diagrams**.

## EDUCATION

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University of Calgary || Calgary, AB, Canada

September 2021 – December 2026

*B.S., Software Engineering*

**Relevant Coursework:** Full-Stack Web Development, System Design, Software Architecture, Operating Systems, Database Management, Software Testing, DevOps, Data Structures and Algorithms, Computer Networking, Object-Oriented Programming, Applied Machine Learning, Deep Learning, Probability & Statistics