

125 Redpath Avenue  
Toronto, Ontario

# MAJD AL MNAYER

[majd.mounayer@gmail.com](mailto:majd.mounayer@gmail.com)

[linkedin.com/in/almnayer](https://www.linkedin.com/in/almnayer) | [github.com/Mounayer](https://github.com/Mounayer) | [almnayer.com](http://almnayer.com)

647-671-6009

## Education

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**Seneca Polytechnic** | Honours Bachelor of Technology – Software Development | GPA: 4.0

**Sept 2021 – Aug 2025**

- **President's Honour List:** Fall 2021 – April 2024.

## Employment

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**SpacesShared** | Junior Software Engineer

**May 2024 – Present**

- Designed and developed a matchmaking system architecture and algorithm using precomputation to enable constant time complexity retrieval of match scores between users and listings based on their selected preferences, regardless of the number of preferences or the number of users and listings.
- Developed a GCP Functions deployment and management system using the functions framework, including an ingress Event Emitter and multiple Pub/Sub functions, such as an email handler with SendGrid.
- Engineered and deployed scalable GCP infrastructure for backend and frontend using Cloud Build/Run and CI/CD.
- Developed robust RESTful CRUD APIs with AdonisJS, streamlining backend services.
- Established robust testing protocols, increasing system reliability through comprehensive unit, integration, functional, snapshot, and end-to-end tests.
- Designed and maintained PostgreSQL databases, including ERD design, architecture, and version control.

**Seneca Polytechnic** | Peer Tutor

**Feb 2023 – Aug 2024**

- Simplified complex programming and web development topics into easy-to-understand concepts.
- Enhanced student comprehension through leading questions and interactive learning techniques.

## Highlights

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- Secured a Gold Medal at the Skills Ontario Post-Secondary Coding Competition in 2023 using C++.
- Participated in multiple hackathons and achieved victory at the 2024 Seneca Housing Hackathon.

## Volunteering

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**Seneca Polytechnic** | Beta Microsoft Learn Student Ambassador

**Nov 2023 – Sept 2024**

- Hosted and organized Generative AI and Machine Learning events at Seneca Polytechnic.
- Lectured to over 50 attendees at a time, with a focus on Microsoft Azure utilization.

## Projects

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**Maple Nest** | JavaScript, Node.js, Azure (Automated ML, Open AI, Cosmos DB), Next.js

**March 2024**

An AI and Machine Learning powered platform that helps students find apartments to rent easier in Canada.

- Processed and cleaned data for, and trained, a machine learning model to predict apartment rent prices.
- Prompt engineered Open AI Models to only acknowledge and reply to context-specific inquiries from users.
- Setup Azure Cosmos DB and developed RESTful CRUD API endpoints in the Backend.

**Others:** [github.com/Mounayer](https://github.com/Mounayer).

## Skills

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**Languages:** C++, C, Python, JavaScript, TypeScript, SQL

**Databases:** MySQL, MongoDB, PostgreSQL, MS SQL Server

**Tools:** Git, GitHub, Jira, Unix/Linux, Jest, Cypress, Docker

**Concepts:** TDD, CI/CD, OOP, Agile, Design Patterns, Scrum

**Web:** React, HTML5, CSS3, Bootstrap, Tailwind CSS, Node.js

**Frameworks:** Express.js, Next.js, Django, Flask, Qt, AdonisJS

**AWS:** EC2, S3, DynamoDB, Cognito, ECR, Lambda, KMS

**Microsoft Azure:** Automated ML, Open AI, Cosmos DB

**GCP:** Cloud Build, Cloud Run, Cloud Run Jobs, Cloud Functions, Cloud SQL, VPC network, Pub/Sub events