

# NOURELDEEN AHMED

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## EDUCATION

### University of Guelph

September 2020 - June 2025 (Expected)

*Bachelor of Computing, Software Engineering (Co-op),*

- Minor: Project Management
- Relevant Courses: Software Engineering (97%), Software Design V (90%), Project Management (99%)
- GPA: 3.7/4

## TECHNICAL SKILLS

- **Languages:** JavaScript, Typescript, Python, Java, GO, C#, SQL
- **Frameworks and Libraries:** React, Angular, Vue, Node.js, Django, .NET, Java Spring, GraphQL.
- **Cloud:** CI/CD, Docker, Firebase, GitHub Actions, Google Cloud, AWS, Microservice Architecture

## EXPERIENCE

### LearningModeAI | GO, Javascript, AWS

Jan 2025 - Present

*Founding Engineer*

Toronto, ON

- Mentored 6 developers working to revolutionize AI in the education industry.
- Collaborated with 2 other co-founders to define product roadmap and company vision.
- Created new processes for collecting, analyzing and acting on user analytics, with a focus on reducing waste
- Developed and maintained our microservice architecture hosted on AWS, with a focus on scalability and performance.

### ecobee | GO, Typescript, Google CCloud

Jan 2024 - Aug 2024

*Software Engineer*

Toronto, ON

- Designed new GO event handlers to quickly and accurately represent the status of user's smart door locks.
- Configured Virtual Private Cloud networks and private API endpoints, bolstering security and reducing staging costs by 20%.
- Organized team-wide release discussions and initiated process improvements, increasing production stability.
- Led 3 multi-faceted, high impact Cloud upgrades, cooperating with my team to manage risk on tight deadlines.

### Royal Bank of Canada | Python, Django REST, Vue.js, MySQL

May 2023 - Aug 2023

*Cyber Security Applications Developer*

Toronto, ON

- Translated new requirements into Jira releases, epics, and stories for a rapidly evolving security dashboard.
- Architected RESTful API endpoints and database migrations for fast access to sensitive cybersecurity data.
- Owned complete features from design to deployment, demonstrating consistent commitment to quality throughout.

### System1 | Angular, C#, .NET, Snowflake

Sept 2022 - Dec 2022

*Full Stack Web Developer*

Guelph, ON

- Grew our Advertising dashboard to support third-party vendors with Angular and .NET.
- Improved SQL query efficiency, reducing response time by 30-40%.

## PROJECTS

### Plant Together | React, ExpressJS, Postgres, Google Compute Engine, Yjs

Sept 2024 - Present

- Created a collaborative PlantUML editor, used by 50+ colleagues for their Software Design Courses.
- Enabled error-free, real-time collaboration using Yjs, eliminating the potential for merge conflicts.
- Persisted encrypted designs using Redis cache and Postgres for long term storage.

### Music Circle | React, Firestore, ExpressJS, Google Cloud Run, Spotify API

May 2024 - Present

- Built a service that scales, enabling hundreds of people to share their music taste simultaneously.
- Integrated OAuth for Spotify API authentication, ensuring secure and convenient access.

### Reddit to TikTok Re-Poster | Python, Flask, Firebase, OpenCV, MoviePy

Mar 2021 - May 2021

- Used OpenCV, MoviePy and the Reddit API to create an ML powered automatic content creation pipeline.
- Achieved 95% improvement in goal-finding speed through multithreading and binary search algorithms.