NOURELDEEN AHMED

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EDUCATION

University of Guelph   **September 2020 - May 2025 (Expected)**

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

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

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*

- Creating new processes to streamline the collection and analysis of **user analytics** via **Microsoft Clarity**.
- Mentoring **6** junior developers working to revolutionize AI in the education industry.
- Developing a scalable and performant microservice architecture with **AWS EC2 & Elasticache**.

ecobee | *GO, Typescript, Google CLoud*   **Jan 2024 - Aug 2024**

Software Engineer   *Toronto, ON*

- Enabled **1000s** of users to link their Yale smart door locks to our app using third-party webhooks in GO.
- Bolstered security and reduced staging costs by **20%** by configuring private networks on our Cloud infrastructure.
- Reduced on-call complaints by **70%** by organizing team-wide release discussions and leading process improvements.
- 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, Figma*   **May 2023 - Aug 2023**

Cyber Security Applications Developer   *Toronto, ON*

- Facilitated the development of a new cyber security dashboard, translating requirements into **100s of Jira releases, epics, and stories**.
- Handled sensitive cybersecurity data by creating performant **Django REST APIs** and **MySQL migrations**.
- Demonstrated my commitment to quality with a **complete ownership** of **5+** features, from design to deployment.

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**.
- Reduced API response time by **30-40%** by optimizing redundant SQL queries.

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 a Postgres backup for long term storage.

Music Circle | *React, Firestore, ExpressJS, Google Cloud Run, Spotify API*   **May 2024 - Present**

- Iteratively designed a beautiful UI using **Figma prototypes** for user testing.
- 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**

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