

NOURELDEEN AHMED

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Experience

ecobee | *GO, Typescript, Google CCloud*

Jan 2024 - Aug 2024

Software Engineer

Toronto, ON

- Expanded our event-driven architecture with polymorphic, scalable webhook handlers in go.
- Configured Cloud VPC networks and private endpoints, reducing staging costs by 20%.
- Built dynamic, user-facing web components with React, Styled Components, and Storybook for testing.
- Organized team-wide release discussions and initiated process improvements, increasing production stability.
- Led 3 multi-faceted, SEV1 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 using Django REST and MySQL.
- Managed feature pipelines from data ingestion to front-end API, focusing on security and scalability.

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%.

Education

University of Guelph

September 2020 - June 2025 (Expected)

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

- Minor: Project Management

Highlights of Qualifications

- Expert in cloud infrastructure and containerization, with strong proficiency in GCP, Docker, and Kubernetes.
- Exceptional analytical and troubleshooting abilities, adept at diagnosing complex issues in distributed systems.
- Effective communicator with experience in cross-functional collaboration and team leadership.

Technical Skills

- **Languages:** JavaScript, 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

Projects

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

Sept 2024 - Present

- Designed a collaborative PlantUML editor, hosted on Google Compute Engine and used by 50+ colleagues.
- Enabled conflict-free, real-time collaboration using Yjs, a CRDT implementation.
- Persisted encrypted designed using Redis cache and Postgres for long term storage.

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

May 2024 - Present

- Built a scalable Express.js backend on Google Cloud Run, enabling seamless music sharing.
- Integrated OAuth for Spotify API authentication, ensuring secure and user-friendly access.

Reddit to TikTok Re-Poster | *React Native, Firestore*

Mar 2021 - May 2021

- Used OpenCV for video analysis and automated content creation with Flask and Selenium.
- Achieved 95% improvement in goal-finding speed through multithreading and binary search algorithms.