Noureldeen Ahmed

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Education

Bachelor Of Computing, Software Engineering (Co-op) \ University of Guelph (Sept 2020 – June 2025)
Minor: Project Management

Skills

Languages: JavaScript, TypeScript, Python, Java, GO, C, C#, SQL.
Frameworks: React, Angular, Vue, Node.js, GraphQL, Flask, Django REST, .NET, Java Spring Boot, Swing.
Dev Tools: VSCode, Visual Studio, Jira, Slack, Miro, Docker, Azure, Firebase, GitHub Actions, Google Cloud, AWS.
Engineering Techniques: CI/CD, REST, HTTP, NoSQL, Microservice Architecture, Domain Driven Development.
Values: Participative leadership, Empathy, Communication, Customer-first Approach.

Work Experience (More information here: nnourr.tech/work-experience)

ecobee \ Software Engineer Co-Op (January 2024 – August 2024)
- Developed scalable webhook handlers using polymorphism in GO to streamline our event-driven codebase.
- Implemented dynamic, user-facing web components with React, Styled Components and Storybook testing.
- Developed endpoint-to-repo CRUD support for third-party Coupon Codes in NESTjs.
- Contributed to architecture and scope discussions of our Hardware Service Bundle initiative, involving 4+ services.
- Configured VPC networks and migrated to private endpoints to bolster security and reduce staging costs by 20%.
- Orchestrated team-wide release discussions and initiated process changes, improving production stability
- Led 3 multi-faceted Cloud upgrades, cooperating with my team to manage risk on tight deadlines.

Royal Bank of Canada \ Cyber Security Applications Developer Co-Op (May 2023 – August 2023)
- Architected RESTful API endpoints and Database Migrations using Django REST and MySQL.
- Collaborated with PMs and POs to refine requirements into Jira Releases, Epics and Stories in a fast agile environment.
- Led entire feature pipelines, from design, to data ingestion, then API and front-end.

System1 \ Full Stack Web Developer Co-Op (September 2022 – December 2022)
- Recognized for my fast learning on a large production project using cutting-edge Angular and .NET patterns.
- Optimized SQL queries to cut down on response time by 30-40%.
- Thrived in fast Agile teams, using Jira and Slack to ensure efficient remote communication.

Personal Projects (More information here: nnourr.tech/personal-projects)

Music Circle: React, Firestore, ExpressJS, Google Cloud Run, Spotify API (May 2024 – Present)
Intention: Create a platform for sharing and discussing music taste using the Spotify API.
- Built a lightweight, performant and scalable Express.js backend hosted on Google Cloud Run.
- Designed and implemented a beautiful, accessible user experience written in React and designed in Figma.
- Used OAuth to manage access and refresh tokens to authenticate users with the Spotify API.

Reddit to TikTok Re-Poster: Flask, Python, OpenCV, Selenium, Reddit API (March 2021 – May 2021)
Intention: Automate the creation of viral content using public APIs, computer vision and web scraping.
- Employed OpenCV, an open-source Python computer vision library, for video analysis and highlight extraction.
- Deployed multiple microservices with individual responsibilities for improved scaling and performance.
- Implemented multithreading and a binary search algorithm to speed up goal finding by 95%.

Extra-Curricular Activities

RBC BattleSnake Finalist (July 2023) (More information here: play.battlesnake.com)
- Collaborated with a team of 3 to construct a BattleSnake API, successfully reaching the finals across RBC students.
- Implemented a MaxN MinMax algorithm to predict the movement of other snakes and find the best move.