

# Roshan Nanthapalan

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## SUMMARY OF SKILLS

(*proficient*): C#, Unity, Java, Android, HTML/CSS, JavaScript, jQuery, TypeScript, Angular, Node.js, AJAX, MySQL, Firebase

(*strong knowledge*): React, C++, Spring Boot, AWS, GCP, Cisco Networking

(*DevOps tools*): Git, Bitbucket, Jira, Jenkins, Docker, Kubernetes, DBeaver

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## EDUCATION

University of Western Ontario - London, ON

2019 - 2023

**Major:** Software Engineering, Bachelor of Engineering Science (B.E.Sc.) – GPA: 3.9/4.0

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## RELEVANT WORK EXPERIENCE

*Cloud Engineer, TELUS Health - Toronto, ON*

May 2022 – August 2022

- Designed, developed, and tested a unified management backplane (UMB) project for cloud migration and deployment platform, which is designed to automate migration of clinical data from legacy data centers into a cloud environment
- Demonstrated use of **AWS CDK**, **CloudFormation**, **CloudFront**, **CloudWatch**, and **ECS**
- Integrated mock **AWS SQS** to write and test SQS methods locally to accelerate the development of AWS SQS communication with cloud management and UMB backend
- Demonstrated use of **TypeScript**, **Angular**, **PrimeNG**, and **Tailwind CSS** by designing, creating, and testing components, services, and routing guards to implement a login/logout feature that authenticates users through Okta and then updates user's information into profile
- Illustrated use of **Java**, **Spring Boot**, and **MySQL** by creating and filtering API endpoints, implementing security, creating unit tests, managing JobRunr jobs, designing and creating DTOs, writing queries, and modifying **DB schemas** for the UMB backend and database

*Game Developer, ePlay Digital - Calgary, AB*

May 2021 – August 2021

- Developed various projects on **Unity** to build new production release versions for apps such as Klocked, Howie Go Viral, Outbreak, Big Shot Swish on Google Play Store and App Store
  - Fixed major crash by using crash analysis tools, memory management analysis tools and quality code to reduce RAM memory usage by about 25% (410MB)
  - Implemented anonymous login feature with **Firebase** to satisfy users request about security and improve app ratings
  - Individually designed the **architecture** and started the development of the Klocked app for **Android** using **Android Studio** with integrated **Unity library**
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## EXTRA-CURRICULAR

*Software Lead, Sunstang (Solar Car Project) - London, ON*

April 2021 – April 2022

- Demonstrated **leadership** and **project management** by leading the Sunstang Software Team of about 30 engineering students to delivering a successful prototype of the **infotainment system** and **chase car telemetry system**
- Collaborated with various leads and managers to work cross-functionally with engineering and marketing teams to define project scope and the schedule of deliverables
- Using **SCRUM** and **SDLC** methodologies to ensure project teams are on schedule, teams have the resources to meet deadlines, and escalated roadblocks to project manager when necessary