

# Isuru Edirisinghe

Full Stack Software Engineer

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## Executive Summary

A Full Stack Engineer with more than 3 years of professional experience in React, ASP.NET Core and MEAN stack along with DevOps experience in both AWS and Azure clouds. Additional experience includes Game Development, Mobile Application Development, Mixed Reality and Image Processing. Currently undertaking Master Internet of Things (M1) at Université Bourgogne-Franche-Comté, France and is in search for a part-time work-study placement.

## Experience

- **Software Engineer, Senior Software Engineer - 99x, Colombo** **2020 Mar - 2022 Aug**  
Member of Project Norkart (Norway based municipal technology provider), specifically in developing applications for water and wastewater management.
  - Design and develop REST API's using ASP.NET Core and MS SQL Server
  - Develop and integrate frontend components with REST APIs using React JS
  - Design, develop and integrate an Azure AD B2C Authorization Middleware layer.
  - Research and implement Map functionality using MapGL and Deck.GL
  - Setup Build and Release pipelines in Azure DevOps for several applications
  - Conduct several Proof of Concepts on using Microsoft Graph API, Azure AD B2C, PouchDB and Progressive Web App functionality
- **Trainee Software Engineer - 99x, Colombo** **2019 Aug - 2020 Feb**  
Member of Project Tracified which provided a suite of applications for blockchain based traceability integration for supply chains.
  - Extend functionality in existing REST APIs using Express JS
  - Develop and integrate frontend components with Rest APIs using Angular
  - Cloud resource deployment automation with AWS CDK (Cloud Development Kit)
  - Deploy and manage Docker containers in AWS EC2 instances running Ubuntu
  - Write shell scripts to automate operational tasks such as managing database backups and archival of application logs in AWS S3 buckets
  - Maintenance of the database layer powered by MongoDB
  - Modify and maintain a custom JSON data query language written using C++ for optimizing traversal of traceability data of products
- **Miscellaneous Experience**
  - Freelance Game Development
    - Self-learned Unity3D game developer with games published for Windows, Linux, Mac OS, Android and iOS
    - Experience in publishing Apps on Google Play Store and iOS App Store
  - Develop a Bluetooth fitness tracker mobile application for a client project (React Native)
  - Experience in Image Processing & AR/VR Application Development

## Education

- MSc. Internet of Things (M1) 2022  
Reading - Université Bourgogne-Franche-Comté, France
- BSc. (Hons) (Sp.) Computer Science and Technology 2016 - 2020  
2<sup>nd</sup> Class Upper (3.37 GPA) - Uva Wellassa University, Sri Lanka
- IELTS Academic Score - 7.5 (CEFR C1) 2021

## Research

- Application of Virtual Reality for Enhancement of English Oral Skill in Sri Lankan Context IRC UWU 2020
- A Customizable Virtual Reality Application for Enhancement of Method of Loci IRC UWU 2019
- Concentration Device for Increasing Productivity Through the Improvement of Pomodoro Technique using Color Psychology IRC UWU 2019
- Sixty Seconds Robot- An Effective Development Approach for Robot Programming IRC UWU 2018

## Achievements

- Change Maker Award at 99x Excellence Awards 2020
- Merit Award for "Amba Yaluwa - Concentration Device" at National Best Quality ICT Awards – 2018  
Organized by British Computer Society - Sri Lanka Section
- IEEE SS12 Maker Fair 2018 - Finalist
- SLT IoT Challenge 2018 - Finalist

## Extra-Curricular

- Student Ambassador - Unity Technologies 2018 - 2020
- Club Captain - Mozilla Campus Club of Uva-Wellassa University (UWU) 2018 - 2019
- Intra-University Hackathon Champion and later Hackathon Master at UWU 2017 - 2020
- Hackathons and Meetups Initiative Lead at 99x 2020