# Rukshan J. Senanayaka

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# About

I'm a goal-driven individual who currently seeks employment as a Software Engineer, Fullstack Engineer, Cloud Engineer or an AIML Research Assistant to serve the institution to the best of my abilities & improve my skills further as a passionate problem solverß

# Skills

- Full Stack | JavaScript | TypeScript | Node | Express | NestJS | React | Astro.js | Next.js | TailwindCSS | antd | ElasticSearch | Algolia
- Go | Java | C# | C | MongoDB | PostgreSQL | MySQL | jQuery | Redis | Git | Jest | JMeter | Unit Testing | OOP | REST API | GraphQL
- Kubernetes | Azure | Cloud Computing | Serverless | CI/CD | Lambda | Cloud Functions | Unity | Game Development
- Microservices | Distributed Systems | Frontend | Backend | Full-Stack | English, Sinhala, Tamil Professional proficiency or above

Professional Experience

## Associate Software Engineer, Part-Time

**Tech Venturas Global** 

Colombo, Sri Lanka 10/2023 - 03/2024

- Implemented an algorithm using worker threads in Node.js, for a food delivery app to improve the performance of the optimum delivery path calculation
- Worked on logistics API, audit logs and did bug fixes of backend. Created a custom decorator to enable audit logging for controller methods in less than half the time

**Gavesha Labs** Nugegoda, Sri Lanka 09/2023 - 12/2023 **Explorer** 

- Designed and implemented the functionalities of the API for collecting, managing and presenting the crowd-sourced weather data, including time series data in MongoDB.
- Implemented the backend features using TypeScript, NestJS
- · Handled the deployment and setting up CI/CD pipelines using Firebase functions & GitHub actions

# Software Engineer, Intern

WSO2

Colombo. Sri Lanka

01/2023 - 07/2023

- Revamped the existing kubernetes operator for WSO2's CIAM offering called "Identity Server"
- · While adding support for the latest Identity Server, added new features using GoLang and did unit testing using ginkgo and gomega
- Created an automation script in Python which reduced the time needed to add support for new deployment configurations by more than two times. Had to use the knowledge of Data Structures & Algorithms in parsing the new config fields from .csv into Go structs
- Created an Azure DevOps pipeline for an internal task of the Platform Engineering team. Had to use Azure Key Vault to securely retrieve secrets to the pipeline

## Junior Software Engineer

Sveta Labs

Peradeniya, Sri Lanka

03/2021 - 01/2023

- Developed the frontend for a meditation app using Flutter (02/2021)
  - · Implemented auth using firebase auth, subscription handling using RevenueCat and state management using Riverpod
  - Implemented a custom audio streaming player with support for both Android & iOS
  - Managed the deployment to Google Play Store and Apple App Store
- Developed the frontend for a lead generation B2B app using Next.js (03/2022)
  - Added styling using TailwindCSS and used zustand for state management
- Developed the frontend for a blog site using Astro.js considering SEO aspects (09/2022)
  - Implemented search functionality using ElasticSearch and did UI fixes

# **Trainee Explorer**

**Gavesha Labs** 

Nugegoda, Sri Lanka 09/2021 - 02/2022

- Did RnD for lesson & prototype creation for the EdTech platform 'Gavesha'
- Used scientific thinking and problem solving skills heavily
- Primarily used markdown to digitize the user-focused lesson content

### Education

# B.Sc. (Hons.) in Information Technology (Reading)

University of Moratuwa

Moratuwa, Sri Lanka 01/2020 - 06/2024

• Major in Information Technology | Dean's list in 3 semesters | Current GPA 3.84 | Computer Architecture, Computer Networks, Operating Systems, Computational Mathematics & Statistics, Artificial Intelligence, Logic Programming & Artificial Cognitive Systems, Enterprise Application Development, Artificial Neural Networks & Evolutionary Computing, Natural Language Processing, Machine Learning and Pattern Recognition, Cluster Computing, IT Quality Assurance, High Performance Computing

Diploma in Software **Engineering** 

**ESOFT Metro Campus** 

Kurunegala, Sri Lanka 01/2014 - 01/2015

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**Open Source** 

GPT-Engineer Flutter Imports Plugin

Flutter NestJS server-side timer

**Intern Project** 

**Crowd-sourced weather API** 

Custom toggle buttons package

Useful AWS commands

# **Projects**

- Designed & Developed a mobile space shooter+racer game using Unity 3D called SpaceVillagers. Won merit at a local game development hackathon (11/2021)
- Contributed to development of Flutter client and NestJS backend with PostgreSQL database for an educational app for kids called 'QuizUp' as the 2nd year software project for the university (09/2021)

# Mentorship

- **Physics Tutor:** Taught Physics to a group of rural kids via zoom for their Ordinary Level exam under the 'Edify' program organized by Rotaract club of the university **(04/2021)**
- **DSA Tutor:** Taught Data Structures & Algorithms to a some under-privileged students via zoom for their university exams as a volunteering effort **(04/2021)**

#### Awards

- Gold Award: CodeFest 2023 Under the Tertiary Category of Datathon, did data pre-processing & exploratory data analysis to gain customer insights from a weather dataset. Built an ML model using PyTorch, deployed and exposed on DigitalOcean using Fast API (01/2023)
- Gold Award: CodeFest 2022 Under the Tertiary Category of Hackathon, developed an election management system in under 24 hours on-site, using Node.js and React.js. To establish integrity of voters, developed a private-public key pair mechanism. Developed a QR code generation feature to easily share the public key to potential voters via email (01/2022)
- Gold Award: CodeFest 2021 Tertiary Category Hackathon (01/2021)
- **Gold Award**: CodeFest 2015 Under the School Category of Coding Contest, developed a 3D open world game using Unity 3D which enables players to learn about the cellular organelles in Biology. Was the only solo-competitor among many team competitors **(01/2015)**
- Gold Award: Young Computer Scientist 2014 Under the Junior Category, developed an LMS using Python & SQLite, for teachers to manage their lessons and content locally and allocate to students as needed. Students could also do quizzes and get them marked (01/2014)
- Silver Award: Sahasak Nimevum 2015 Under the School Learning Aids Category, developed an LMS in C# which allows school teachers to manage their lessons locally and give access to students based on the curriculum (01/2015)
- Bronze Award: CodeFest 2013 Under the School Category of Coding Contest, developed a simple Visual Basic desktop application which allows users to answer MCQ questions under chemical reactions topic in grade 10 Chemistry (01/2013)
- Bronze Award: Young Computer Scientist 2015 Under the Senior Category, developed a mobile app which enabled users to see and manipulate chemical compounds interactively in real time 3D using augmented reality. Used Unity 3D with Vuforia AR SDK (01/2015)
- Bronze Award: CodeFest 2023 Under the Tertiary Category of DevQuest Hackathon, solved 17 out of 18 challenges with subtasks to solve bugs in a Node.js program within 9 hours (01/2024)

# Other\_

- **Gold Award**: National Level English Language Competitions Proving the impromptu speaking skills, could successfully get the highest marks from a qualified panel of judges out of 10+ finalists representing the entire country **(01/2016)**
- **Gold Award**: National Inter-School Chess Championship Led the team to win the national level championship and also won the 'best performer' title for the position of team out of all teams **(01/2011)**

#### References

- **Dr. Thilina Thanthriwatta** | Senior Lecturer, Department of Information Technology, Faculty of Information Technology, University of Moratuwa, Sri Lanka, 10400 | thilinat@uom.lk
- Mr. Deependra Ariyadewa | Associate Director/Architect, WSO2 Lanka (Pvt.) Ltd. | deep@wso2.com