AVISHKA SHAMENDRA

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 Avishka-Shamendra   Ⓜ asnshamendra.medium.com   G Scholar Profile

A hardworking, energetic final-year undergraduate with a passion for software development and a talent for problem solving. Seeking an opportunity as a software engineer to embark on a fulfilling and challenging career journey.

Research Interests:
Cloud Computing & Architecture,
Cloud Security & Privacy,
Serverless Computing,
Micro-services

EDUCATION

University of Moratuwa, Sri Lanka   2018 – 2023
Bachelor of the Science of Engineering Honours, First Class
Computer Science & Engineering

- **Cumulative GPA: 4.13/4.20**
- Gold Medal for the Best Performance in Computer Science & Engineering - Rank 1/128
- Dean's List: Semester 1, 2, 3, 4, 5, 6, 7 & 8

Nalanda College, Colombo, Sri Lanka   Graduated in 2017
G.C.E. Advanced Level 2017 (Physical Sciences)

- 4As | Country Rank: 94 | Z-score: 2.314 (top 0.5%)
- National university entrance examination taken by more than 270,000 students

EXPERIENCE

Software Engineer - WSO2 LLC.   July 2023 – Present
Sri Lanka, USA

- Designed and developed the metrics module in Choreo Connect, a cloud-native API gateway
- Engaged in the research and development of the API Governance Module for WSO2 API Manager
- Technologies: Maven, Java, Kubernetes, Docker, Go

Software Engineering Intern - WSO2 LLC.   May 2020 – July 2021
Sri Lanka, USA

- Developed the *OAUTH2/FHIR Scope Management Module* for the WSO2 Open Healthcare solution
- Technologies: Maven, Java, FHIR

Software Engineering Intern - iXD Labs (Pvt) Ltd.   May 2020 – May 2021
Tech Startup in Sri Lanka

- Collaborated with a small team to complete projects within a given time frame and gained experience in API development, web and mobile application development
- Technologies: Python, Flutter, Node, React, PostgreSQL, Firebase

RESEARCH & PROJECTS

TruFaaS - A Trust Verification Framework for FaaS   Sep. 2022 – June 2023
Final Year Research Project   UbiSec 2023 Publication | GitHub

- Introduced a novel trust verification framework architecture to calculate and verify the trust of functions on a FaaS platform
- Technologies: Go | Docker | Kubernetes | Fission Serverless Framework

UniLabs Inventory Management System   July 2021 – Dec. 2021
Academic Project - Software Engineering Module   [GitHub](#) | [YouTube](#)
- Designed and Developed barcode based automated inventory management system for university laboratories
- Technologies: Django | React-Redux | Flutter-BLoC | PostgreSQL

Agro Wholesale Market   Dec. 2020 - Feb. 2021
Academic Project   [GitHub](#)
- Designed and developed a web-based system which allows farmers to post about their harvested produce for sale and wholesale buyers to privately respond with bids, following MVC architecture.
- Technologies: Node | Express | PostgreSQL | React

Airline Reservation System   Dec. 2020 - March 2021
Academic Project - Database Module   [GitHub](#)
- Developed a complete airline reservation system which enables customers to book flights and airline management to schedule flights, using advanced database concepts such as transactions, indexing, and views
- Technologies: Node | Express | PostgreSQL

COVID-19 Situational Analysis Dashboard   March 2021
Personal Project   [GitHub](#)
- Used to provide COVID-19 case figures to Sri Lankans through the API of the Health Promotion Bureau
- Technologies: React | React-Redux | Google Charts

Mobile Application Projects   2020
Personal Projects   [GitHub-Timetable App](#) | [GitHub-Mora GPA App](#)
- My Timetable App: State of the art application for school children to keep track of their timetable. Had 5000+ downloads on Play Store before the app was retired.
- Mora GPA App: Designed for undergraduates of University of Moratuwa to keep track of their GPA. Had 400+ downloads on Play Store before the app was retired.
- Technologies: Flutter

Mora dARts - An AR Darts Game   Feb. 2023
Academic Project   [GitHub](#) | [Video](#)
- A single-player AR dart game for mobile devices created using the Unity game engine and the features of AR Foundation
- Technologies: C# | Unity

COMPETITIONS & HACKATHONS

Top Ten   **IEEEXtreme 14.0, 15.0 , 16.0**
                  Consistently ranked among the top ten in Sri Lanka for three consecutive years

Winner   **Decode 1.0 - 2021**
                  Winner of the individual programming hackathon organized by the ACM student chapter of University of Moratuwa

Winners   **Dentsu RiseUp Challenge Sri Lanka - 2022**
                  Pitched *Food Pulse Application* to minimize food waste in hotels & shops by redistributing excess food

Finalists   **TADHack Sri Lanka - 2022**
                  Reached the finals of TADHack telecom application development hackathon with the *Food Pulse Application*

TECHNICAL STRENGTHS

Programming Languages	Java, Python, Go, JavaScript
Databases	MySQL, PostgreSQL, H2, Cloud Firestore
Web Development	Django, Node.js, Express, React
Mobile Development	Flutter

EXTRA CURRICULAR ACTIVITIES

IT/Marketing Director - IAESTE, Sri Lanka 2022/23

IAESTE is a global non-profit organization offering students international technical internship opportunities. Was Responsible for all IT & marketing activities, including the development of IAESTE Sri Lanka website

President - Science Society, Nalanda College 2016/17

Led the school science society overseeing all activities and programs organized by the society

References available upon request