Danuka Lakshan

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Profile

I am currently pursuing a Bachelor's degree in Computer Science and Engineering with a specialization in Data Science Engineering. I have experience in full-stack and mobile application development, and I am a continuous learner who enjoys collaborating with teams to design and build systems that create real-world impact.

Education

University of Moratuwa, B.Sc. Eng (Hons) in Computer Science & Engineering — 2021 – present
- Specialization: Data Science & Engineering
- Dean's List in Semester 2 (3.82)

Royal College, Colombo, G.C.E Advanced Level Examination, Physical Science Stream — 2017 – 2020
- Achieved: 3 A's, Z-score: 2.4771
- Island Rank: 181

Mahinda Rajapaksha College, Homagama, G.C.E Ordinary Level Examination — 2011 – 2017
- Achieved: 9 A's

Experience

Bitwize.ai, Full-Stack Engineer (Part Time) — Sep 2025 – present
- Building an offline-capable mobile AI chatbot with privacy first user experience.
- Contributed to the authentication system, subscription flow, apple health-kit agent integration and overall UI/UX improvements.
- Managed the end-to-end deployment pipeline, including backend hosting on AWS EC2 and mobile app releases via the App Store and TestFlight.

WSO2 Lanka, Software Engineering Intern — Jan 2025 – June 2025
- Developed a mobile application using React Native for UI, Ballerina for backend services, MySQL for database management, and deployed using Choreo
- Contributed migration of a mobile app to a web platform
- Diagnosed and resolved bugs in mini applications

Projects

1. **Mono2Micro**, Monolithic-to-Microservices Decomposition System — July 2025 – Present
   Technologies: Python, LLM, Java, Spring Boot, Research and Development

2. **ChatBro Mobile App**, offline-capable mobile AI chatbot — Sep 2025 – Present
   Technologies: React Native, Node JS, Agentic AI, Stripe, AWS EC2, App Store Connect

3. **MediQ**, A Simple and Effective Digital Token Management System for Medical Centres — Oct 2025 – Dec 2025
   Technologies: React Native, Firebase Authentication, Firestore, Firebase Cloud Functions

4. **WSO2Con Mobile App**, Attendees' Guide App for WSO2 Annual Conference — Jan 2025 – June 2025
   Technologies: React Native, Ballerina, MySQL, Python, PostgreSQL (VectorDB)

5. **Ceylon Chronicle**, Public Travel Blog Platform   Oct 2024 – Dec 2024
   Technologies: React, Tailwind CSS, Node JS, Firebase, MongoDB

6. **HealthBot Plus**, AI Web App for Skin Disease Detection   July 2024 – Oct 2024
   Technologies: React, Tailwind CSS, Python Flask, MongoDB, Firebase, Hugging Face

7. **Resort Reservation System**, Resort Booking and Review Website   May 2024 – July 2024
   Technologies: React, Node JS, Express, MySQL

Technologies

Programming Languages: Python, TypeScript, JavaScript, Ballerina, SQL

Web Development: HTML, CSS, React, Express, FastAPI, Tailwind CSS

Database Systems: MySQL, MongoDB, PostgreSQL, Firebase Cloud Storage, Firestore

Machine Learning: Numpy, Pandas, PyTorch

Tools: GitHub, VS Code, Conda (Kaggle, Jupyter), Lucid Chart

Deployment: Vercel, AWS EC2, App Store Connect

Licenses & Certifications

- "Intro to Machine Learning" by Kaggle
- "Intermediate Machine Learning" by Kaggle
- "AWS Academy Machine Learning Foundations" by AWS
- "PyTorch Fundamentals" by DeepLearning.AI

Extracurricular Activities

- 2014: Participated in the Under 13 Schools All Island Division III Cricket Tournament, securing 4th place
- 2015: Champions of the Under 15 Schools All Island Division III Cricket Tournament
- 2013 - 2017: Member of the school cricket team
- 2020 - Present: Participant in softball cricket tournaments

References

Dr. Uthayasanker Thayasivam
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Department of Computer Science & Engineering, University of Moratuwa
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