

Tharindu Sumanarathna

Associate Software Engineer



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PROFILE SUMMARY

Motivated Computer Engineering student at the University of Jaffna with a strong foundation in Java development and hands-on experience in building backend applications using Spring Boot. Skilled in database management with MySQL and PostgreSQL, and experienced in RESTful API development. Familiar with frontend technologies such as React.js and Tailwind CSS, enabling smooth collaboration across full-stack teams. Possess additional exposure to Python (FastAPI), Machine Learning concepts, and GenAI tools. Strong understanding of computer systems, networking, and troubleshooting, with the ability to quickly learn new technologies. Eager to undergo professional training to deepen Java enterprise skills and contribute effectively to backend development, system integration, and scalable software solutions.

WORK EXPERIENCE

Intern Software Engineer

Feb 2025 - Aug 2025

FocalID Technologies, Mirigama, Sri Lanka.

Major: FastAPI, Django, React.js, MySQL | **Minor:** Flutter, Decentralized Web Applications (Solidity, HardHat, MetaMask)

PROJECTS

Student Management System (Next.js, TypeScript, Spring Boot, PostgreSQL) [\[GitHub\]](#)

Nov 2025 - Present

- Developing a full-stack student management application with secure JWT-based authentication, enabling authorized users to perform complete CRUD operations on student records.

Lecture hall booking system (React.JS, Spring Boot, MySQL) [\[GitHub\]](#)

Mar 2024 – Jul 2024

- As part of a team project, I worked as the frontend to develop a user-friendly interface for the Lecture Hall Management System. I focused on creating intuitive navigation and responsive design, making it easy for lecturers and coordinators at the University of Jaffna to search, book, and manage lecture hall reservations efficiently.

Chicago Back Office (FastAPI, NEXT.JS)

May 2025 – Aug 2025

- Developed an admin dashboard for managing users, clients, and related data using the Next.js framework with ShadCN UI components. Focused on clean data handling and seamless API-to-UI integration.

WSID Back Office (Django, HTML, CSS)

Apr 2025 – May 2025

- Developed a monolithic admin dashboard using Django with frontend interfaces built using HTML, CSS, and Bootstrap. Integrated PostgreSQL as the database and created REST endpoints to manage data. Implemented user management and data visualization features in a unified backend-frontend architecture

Molecular characterization comparison between breast cancer and ovarian, cervical and pancreatic cancers (Machine Learning)

Mar 2024 - Oct 2025

- Conducted a final-year research project applying machine learning for molecular characterization of breast, ovarian, cervical, and pancreatic cancers. This project involves analyzing and comparing tumor biology, pathways, and therapeutic targets across these cancer types to uncover potential insights for treatment.

EDUCATION

BSc. Engineering (Hons) in Computer Engineering

Apr 2021 - Oct 2025

University of Jaffna, Ariviyal nagar, Sri Lanka.

Major: Machine Learning, Web Development, Database Management | **Minor:** Computer Vision, Embedded Systems

CORE COMPETENCIES

- Programming Languages | Java, Python, JavaScript, HTML, CSS, SCSS, Dart, C++, MATLAB
- Frameworks | Spring Boot, NEXT.JS, FAST API, Flutter, Django
- Databases | MySQL,, PostgreSQL, MongoDB
- Tools | Jira, Anaconda (Jupyter), Google Colab
- Cloud Platforms | AWS (basics), Docker (basics)

CERTIFICATES

DL0101EN: Deep Learning Fundamentals with Keras – edX

May 2024

VOLUNTEERING EXPERIENCES

Web Master of ComSoc Student Chapter of IEEE Student Branch University of Jaffna

August 2024 - Oct 2025

IEEE member of student branch University of Jaffna

Jan 2024 - Oct 2025

AWARDS AND ACHIEVEMENTS

MoraXtreme 9.0 - 20th place – IEEE Computer Society, University of Moratuwa

Oct 2024

IEEE Xtreme 18.0 – 3rd Place Jaffna branch - 48th Local place and 658th Global place

Oct 2024

Participant of ACESS coders v11.0 – Faculty of Engineering, University of Peradeniya

Sept 2024

REFERENCES

DR. (Mrs.) P. Jeyanathan

Head of the Department

Senior Lecturer Grade II

Department of Computer Engineering

Faculty of Engineering

University of Jaffna

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Mr. Udara Nilupul

Machine Learning Engineer at Ascentic

Former MLE at Exedee

MSc. in Data Science and AI (Reading)

BSc. (Hons) in Engineering UOJ

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