

Kalpa Navanjana Perera

Undergraduate Student | **Software Engineer - Intern**

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[GitHub](#) | [LinkedIn](#)

A motivated and detail-oriented software engineering student with a strong foundation in use of different languages and Technologies. Known for the ability to tackle complex problems and drive projects from conception to completion.

Passionate about leveraging my technical abilities, teamwork skills and eager to bring my adaptability, dedication, and results-driven mindset to my internship while advancing skills and making a meaningful impact.

EDUCATION

- **INFORMATICS INSTITUTE OF TECHNOLOGY**
Computer Science Bachelors
September 2023 – Present
Colombo, Sri-Lanka
- **INFORMATICS INSTITUTE OF TECHNOLOGY**
Foundation Certificate in Higher Education : **Distinction**
September 2022 – September 2023
Colombo, Sri-Lanka
- **DE MAZENOD COLLEGE**
G.E.C Ordinary Level : **6As 3Bs**
2021(2022)
Kandana, Sri Lanka

SKILLS

- **Programming Languages** Java, Python, HTML, CSS, JavaScript, SQL, TypeScript, C#
- **Libraries/Frameworks** Spring-Boot, Django, Angular, ASP.NET, ReactJS, Tailwind
- **Tools / Platforms** Git, Postman, Docker, Figma, AWS
- **Databases** MySQL, PostgreSQL
- **Concepts** OOP, Concurrency & Multithreading, Data Structures & Algorithms, DBMS, Design Patterns, ML, GIS, ORM, , CI/CD, Microservices
- **API** REST API, WebSocket
- **Project Management** Agile, Jira

PROJECTS / OPEN-SOURCE

- **MACHINE LEARNING-BASED BREAST CANCER SURVIVAL PREDICTION (Ongoing)** Python
Developing predictive models for breast cancer mortality and survival months using classification, regression, and ensemble methods. Applied data preprocessing, feature selection, and hyperparameter tuning to enhance accuracy.
Tools: **Python, Scikit-learn, Pandas, Matplotlib, GridSearchCV.**
- **REAL-TIME TICKETING SYSTEM | [GitHub](#)** Java, Spring-boot, Angular
Accomplished efficient backend and frontend development for a real-time ticketing system as measured by optimized performance and automated ticket pools by implementing JPA for data management, multithreading for performance, and an Angular frontend for user interactions.
Tools: **Spring Boot, JPA, Hibernate, Angular, PostgreSQL, Java.**
- **WONDERSRI – LOCATION-BASED MOBILE APPLICATION (Group work) | [GitHub](#)** Python(Django)
Led backend development for a Flutter-based tourism app with real-time geofencing.
Developed geofence detection, location updates, and landmark data with real-time communication.
Gained experience in handling real-time data, geospatial queries, and WebSocket integration.
Tools: **Supabase, GDAL, GIS and WebSockets, Docker, CI/CD**
- **BOOK MANAGEMENT SYSTEM | [GitHub](#)** ASP.NET Core, Angular
Developed a full-stack book management application with CRUD operations for books, featuring a clean Angular frontend styled with Tailwind CSS and a RESTful ASP.NET Core Web API backend.
Implemented efficient state management using standalone Angular components and ensured secure cross-origin access with CORS setup in .NET.
Tools: **ASP.NET Core, Angular, Tailwind CSS, TypeScript, C#, Postman.**

CERTIFICATIONS

- [Foundation Certificate in Higher Education](#) - Informatics Institute Of Technology Sep 2023
- [Learning Spring with Spring Boot](#) - LinkedIn Learning Certificate of Completion Nov 2024
- [IEEEExtreme 18.0 certificate](#) – IEEE Oct 2023
- [Python for beginners](#) - University of Moratuwa, Sri Lanka May 2023

LEADERSHIP AND EXTRA CURRICULAR ACTIVITIES

- Member of the IEEE Society at IIT. 2023 - Present
- Led Assignment Groups at IIT. 2022 - Present
- Participated in ICT Society at De mazenod collage. 2019 - 2022
- School Football Team Player 2017 - 2022
- Led charity projects like visiting an Elder's home, entertaining them, and donating essential items.

NON-RELATED REFEREES

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