Navodya Dhanushka

undergraduate Software Engineer

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SUMMARY

Motivated backend engineer and undergraduate at Sri Lanka Institute of Information Technology with a strong passion for problem-solving. Experienced in building user-centric applications using various stacks and frameworks. Skilled in developing efficient RESTful APIs, implementing role-based authentication and OAuth 2.0, and creating responsive designs while leveraging emerging technologies to deliver impactful solutions.

TECHNICAL SKILLS

Languages: Java, Python, HTML, Css, JavaScript
Frameworks: Spring Boot, FastAPI, React.js, Next.js
Databases: MySQL, MongoDB, PostgreSQL
AI Technologies: RAG , Generative AI, GPT API, Qdrant(Vector Database)
Programming Principles: OOP, ACID, SOLID, Clean Code
Tools: Postman, VS Code, PyCharm, MySQL Workbench
Other: GitHub, Agile Development, UML, Swagger, Debugging, Exception handling

EXPERIENCE

Trainee IT Officer   May 2022 – Aug. 2022
Kelum Life Sciences   *Kandy Industrial Zone, Sri Lanka*
- Providing technical support to end-users, troubleshooting hardware and software issues, and ensuring timely resolution of IT-related problems.
- Assisting in the installation, configuration, and maintenance of computer systems, networks, and peripherals.
- Collaborating with team members to deploy software updates, patches, and security measures to safeguard the organization's IT environment.

PROJECTS

Research Paper Management System | *React, FastAPI, MySQL, Vector DB, Git*   Mar. 2025 – May 2025
- Enabled paper upload, editing, and deletion with automatic extraction of metadata (title, abstract, author, introduction) from PDFs using Python libraries.
- Built AI-powered Q&A functionality using RAG and vector databases, allowing users to ask questions based on indexed papers and external links.

Skill Sharing Web Platform | *React, Spring Boot, MySQL, Git*   Mar. 2025 – May. 2025
- Created RESTful APIs with Spring Boot to support resource management workflows, including admin-level content approval, rejection, and moderation.
- Integrated the module with OAuth 2.0-based authentication and profile systems to enable personalized resource interaction and access control.

Postal Management System | *Next.js, TypeScript, Python, FastAPI, MySQL, Git*   Mar. 2025 – May. 2025
- Designed a dashboard for reception managers to monitor the status of messages and generate reports using MySQL for data storage.
- Developed a message forwarding mechanism to allow seamless routing of messages between departments and sub-departments

EDUCATION

Sri Lanka Institute of Information Technology   Colombo, Sri Lanka
BSc. Hons in Information Technology, Faculty of Computing   *2023 - Present*

Esoft Metro Campus   Kandy, Sri Lanka
Diploma in Information Technology   *2022 - 2023*

Australian College of Business and Technology   Colombo, Sri Lanka
Diploma in English   *2022*