

SHASHINI MADUSHIKA

Computer Science Student | Software Developer | AI/ML Enthusiast

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PROFESSIONAL SUMMARY

Dedicated Computer Science undergraduate with strong expertise in algorithms and full-stack software development. Passionate about Machine Learning and Artificial Intelligence with hands-on experience in developing innovative solutions. Proven leadership abilities in collaborative development environments with demonstrated success in guiding teams and delivering high-quality projects. Seeking to leverage technical expertise and problem-solving skills in a challenging role to contribute to cutting-edge software development and AI-driven initiatives.

EDUCATION

University of Colombo School of Computing | *Colombo, Sri Lanka* **July 2023 – Present**
Bachelor of Science in Computer Science | **CGPA: 3.33/4.00**

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Software Engineering, Machine Learning, Middleware Architectures, Data Science with R, Network, Electronics

Ananda Sastralaya | *Mathugama, Sri Lanka* **2019 – 2021**

- **G.C.E Advanced Level (2021):** ICT: A, Physics: B, Combined Mathematics: C
- **G.C.E Ordinary Level (2017):** 8A, 1B passes

TECHNICAL PROJECTS

StructuraX - Construction Management System | *Group Project* **Jan 2025 – Present**
Tech Stack: React, Java Spring Boot, MySQL, Tailwind CSS **Watch Demo**

- Leading development of comprehensive construction tracking platform with real-time project monitoring capabilities
- Architected multi-role interfaces supporting 12 user types including clients, supervisors, and project managers
- Designed secure authentication with role-based access control and responsive React frontend
- **My Contribution:** User Role Management (Admin & Designer), Database Design, Backend Repository Management

Trip Track - Highway Bus Management System | *Group Project* **May 2024 – Apr 2025**
Tech Stack: HTML5, CSS3, JavaScript, PHP, MySQL **Watch Demo**

- Developed comprehensive bus operations management system with real-time seat booking and QR ticketing
- Built conductor mobile portal with QR scanning functionality and automated email notifications
- Created admin dashboard with sales reporting and optimized MySQL database for real-time updates
- **My Contribution:** User Role Management (Registered User), Database Normalization, UI Design

Skill Mentor - Classroom Management System | *Solo Development* **Apr 2025 – Present**
Development: Java, Spring Boot, JPA/Hibernate, MySQL, React, Clerk **Watch Demo**
Deployment: PostgreSQL, Supabase, Render, Vercel

- Developing enterprise-grade classroom management system using Spring Boot layered architecture
- Building robust REST API with JPA/Hibernate ORM and automated scheduling with conflict resolution
- Implementing Clerk authentication and planning React frontend integration with responsive design

UniHub - Lecturer-Student Communication Platform | *Group Project* **June 2025 – Aug 2025**
Tech Stack: React, Tailwind CSS, Java Spring Boot, MySQL, Always Data **Watch Demo**

- Developed comprehensive academic communication platform with peer learning and query management systems

- Built appointment scheduling, resource uploading, and Gemini AI-powered paper discussion features
- Created student productivity tools including scheduling timers, to-do lists, and GPA calculators
- **My Contribution:** Admin Portal Development, Backend Repository Management, Gemini AI Integration

AI-Powered Interview Preparation App | *Solo Development*
Tech Stack: MERN Stack (MongoDB, Express.js, React.js, Node.js), Gemini API

Ongoing

- Developing intelligent interview preparation platform with AI-powered Q&A generation using Gemini API
- Building full-stack application using MERN stack architecture for seamless user experience

Intelligent Spam Classifier | *Mini ML Project*
Tech Stack: Python, NLTK, Scikit-learn, TF-IDF, Streamlit, Render

Aug 2025
Watch Demo

- Built production-ready spam classifier achieving human-level accuracy using machine learning techniques
- Trained classification model on 5,000+ labeled messages with Streamlit frontend for seamless user experience
- Deployed cloud-based solution on Render platform for global accessibility and real-time spam detection

TECHNICAL SKILLS

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|------------------------|--|
| Programming Languages: | Python, C/C++, JavaScript (ES6+), PHP, Java, Scala |
| Web Technologies: | HTML5, CSS3, React, Bootstrap, Material UI, Tailwind, RESTful APIs |
| Frameworks & Tools: | Spring Boot, JPA/Hibernate, Git/GitHub, Linux, MySQL |
| Development Tools: | VS Code, IntelliJ IDEA, Postman, RStudio, Octave, PyCharm |
| Core Competencies: | Leadership, Agile Development, Problem Solving, Communication |

PROFESSIONAL EXPERIENCE

Backend Developer | *Athenyx Systems*
Tech Stack: Java Spring Boot
Currently providing backend development support using Java Spring Boot for ongoing organizational projects.

Present

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- Achievements & Recognition**
 - **IEEE Ideathon Finalist:** SkyDevs team selected to finals at IEEE branch, Faculty of Engineering, Sri Jayawardhapura University (August 2025)
 - **NSBM Hackathon Finalist:** Certified finalist group at hackathon conducted by CCCI, NSBM Green University (August 2025)
- Professional Certifications & Training**
 - **STEMLink:** Java Spring Boot Backend Engineering Course (2025 – Present)
 - **Pantech.ai:** 30 Days Full Stack Web Development Masterclass (2024)
 - **Microsoft Learn:** Web Development 101 (2024) | **AWS Education:** Introduction to Cloud 101 (2024)
 - **LinkedIn Learning:** Cybersecurity Awareness, Career Essentials in Cybersecurity, Generative AI (2024)

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

- Organizing Committee Member – Fitness Challenge 2025, Rotaract Club of UCSC (2025)
- Financial Team Member – Hactivate Hackathon, Women in Engineering (WIE) (2025)
- Design Team Member – Codesphere PHP Workshop, Women in Engineering (WIE) (2024)
- Interfaculty Kabaddi Team Representative – University of Colombo & UCSC (2024 – 2025)
- Active competitor in multiple sports: Kabaddi, Volleyball, Cricket, Athletics, and Weightlifting

REFERENCES

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| Dr. Chaminda Ranasinghe Senior Lecturer, Project Supervisor University of Colombo School of Computing Email: crc@ucsc.cmb.ac.lk Phone: +94 77 744 4443 | Dr. (Mrs) H.N.D. Thilini Senior Lecturer, Project Supervisor University of Colombo School of Computing Email: hnd@ucsc.cmb.ac.lk Phone: +94 71 822 2128 |
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