Yushri ahamed

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Colombo, Sri Lanka

# **Professional summary**

# Computer science undergraduate passionate about Artificial intelligence and Machine learning, with strong skills in data structures, algorithms, and competitive programming. I build practical projects using python and java, aiming to develop AI systems that transform everyday life. I am always eager to connect and discuss technology and innovation.

# **Skills & Abilities**

Technical skills: Agile software Development, Spring boot, Git, React, Figma, Flutter, Java, C, Python, PostgreSQL

Soft skills: Leadership, English, Sinhala, and Tamil language proficiency, teamwork, creativity, self-learning

# **Projects**

**Domain-Specific Language for Form Specification – *Lex, Yacc***

Created a DSL to define forms declaratively, using Lex and Yacc to parse FormLang++ scripts and generate HTML forms with built-in validation. Highlighted skills in compiler design and language processing.

### **Distributed Messaging System – *Java***

### Built a messaging system with features like fault tolerance, replication, consensus (Raft/Paxos), and clock synchronization to ensure reliability and consistency in distributed environments.

### **Smart Water Meter – *Flutter, IoT***

Developed an IoT-based smart meter and mobile app to replace paper bills with real-time digital water usage tracking, improving accessibility and efficiency.

### **Apartment Management System – *Figma, Java, Spring Boot***

Designed and built a full-stack platform connecting residents and builders for utility tracking, complaint management, and service requests, starting from high-fidelity Figma prototype to hosted Spring Boot deployment.

### **Hospital Management System – *Java, Spring Boot***

Implemented a full-stack healthcare platform to manage patients, doctors, pharmacists, and suppliers, with features like appointment scheduling and inventory tracking.

### **Research on Intel’s Contribution to Neuromorphic Computing – *Literature Review***

Reviewed and analyzed IEEE papers on Intel’s neuromorphic efforts, focusing on hardware innovation and brain-inspired computing's potential impact on AI.

### **Traffic Light System – *IC555 Timer, IoT***

Built an embedded traffic light simulation using IC555 timers to control signal transitions, demonstrating timing control and basic IoT hardware integration.

### **Tic Tac Toe Game – *C***

Developed a two-player command-line Tic Tac Toe game in C with turn-based logic and win/draw detection, reinforcing core programming concepts.

# **Education**

## BSc. (Hons) in Computer Science

### Sri Lanka Institute of Information Technology

I study core subjects such as data structures, algorithms, software engineering, and operating systems. I actively engage in practical labs, projects, and hackerrank exercises to strengthen my problem-solving and coding skills. Beyond academics, I participate in tech communities and events to broaden my knowledge and apply what I learn to real-world solutions.

## **Primary and secondary education**

### Wesley college Colombo

I completed my Ordinary Level and Advanced Level examinations at Wesley college Colombo, where I actively participated in extracurricular activities. I was a member of the school cricket team, which helped me develop teamwork, discipline, and leadership skills. Additionally, I volunteered with the Majilis Society, contributing to organizing events and supporting community initiatives, enhancing my communication and organizational abilities.

# **Certifications**

**Introduction to Agile Development and** Scrum - Adopt the 5 practices of Agile, a subset of DevOps: small batches, minimum viable product, pair programming, behavior- and test-driven development. Write good user stories, estimate and assign story points, and track stories using a kanban board. Incorporate Scrum artifacts, events, and benefits. Create and refine a product backlog using the sprint planning process. Produce potentially shippable product increments with every iteration. Create burndown charts to forecast the ability to meet a sprint goal. Use metrics to enhance performance, productivity, and client satisfaction.

**Python programming** - Basic knowledge of Python, with experience in writing simple scripts for problem-solving and algorithm implementation. Familiar with fundamental concepts and eager to expand skills towards practical projects and AI applications.

# **Volunteering**

SLIIT FOSS

Quantum computing society of SLIIT