PARISHITH RAGUMAR

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Summary

Aspiring Full-Stack Developer with a strong foundation in software engineering, eager to apply technical skills and problem-solving abilities in a dynamic team environment. Experienced in full-stack web development, embedded systems, and AI-powered applications. Passionate about learning and leveraging innovative technologies to create impactful solutions. Highly motivated to gain hands-on experience through an internship opportunity.

Education

University of Moratuwa, Sri Lanka   Feb 2023 - Present
Bachelor of the Science of Engineering (Honors) in Computer Science and Engineering

Jaffna Hindu College, Jaffna, Sri Lanka   Jan 2013 - Jan 2022
Secondary Level (Grade 06 to 13)
GCE Advanced Level (Mathematics, Physics, Chemistry)
*3A |**Island Rank: 178** | Z-Score: 2.4758*   Feb 2022

Projects

AI-Powered Physiotherapy Web App   Project Link

- Implemented real-time exercise tracking using **OpenCV** and **Mediapipe**.
- Developed an AI-powered **RAG** chatbot with LangChain and OpenAI for personalized guidance.
- Enabled video uploads for feedback and progress tracking.
- Stack: Python, OpenCV, Mediapipe, OpenAI, Streamlit, LangChain, Flask

School Admission Distance Calculator   Project Link

- Built a **Django** web application to automate school admissions using Google Maps API.
- Integrated a UI with Tailwind CSS and optimized backend processing using Django's modular architecture.
- Stack: Django MVC, Google Maps API, CSRF tokens, Tailwind CSS, Django Cotton, HTML, CSS, JavaScript

Supply Chain Management Web App   Project Link

- Developed a full-stack web application for managing stocks, customers, and logistics.
- Implemented secure authentication using **JWT, Axios** for API requests, and **React Router** for navigation.
- Used MySQL with indexing and normalization for optimized database management.
- Stack: Node.js, React.js, MySQL, Express.js, JWT, Git, Bootstrap, JavaScript, HTML, CSS

Nanoprocessor Design   Project Link

- Designed and implemented a 4-bit nanoprocessor capable of executing a custom set of instructions.
- Developed a 4-bit arithmetic unit with 2's complement representation and 2-bit unsigned multiplication.
- Implemented a custom instruction decoder, 8-register bank, and 3-bit program counter.
- Deployed and tested on BASYS 3 FPGA.
- Stack: VHDL, BASYS 3 FPGA, Xilinx Vivado, Logic Design

Skills

Languages: Python, Java, PHP, TypeScript, HTML/CSS/JavaScript, C++, SQL
Frameworks: Node.js, React.js, Express, Bootstrap, Django, Flutter
Databases: MySQL, SQLite, MongoDB
Cloud and DevOps Tools: Git, AWS EC2
Soft Skills: Teamwork, Communication, Time Management, Leadership, Adaptability

Relevant Coursework

- Software Engineering *(Following)*
- Data Structures and Algorithms
- Database Systems
- Program Construction
- Programming Fundamentals
- Introduction to Artificial Intelligence
- Operational System Security *(Following)*

Clubs & Organizations

- AIESEC in University of Moratuwa
- UOM Sports Community
- Tamil Literary Association

Online Learning and Certifications

Building Generative AI Applications with Gradio offered by DeepLearning.AI	Aug 2024
The Complete Full-Stack Web Development Bootcamp offered by Udemy	Following
Google Cybersecurity Professional Certificate	Following
Pandas offered by Kaggle	Sep 2024
Programming in Python-1 offered by University of Moratuwa	Nov 2022

Achievements & Awards

University Colours Insignia Recipient (2024) *Awarded for outstanding performance in basketball during the SLUG 2023 tournament.*

AI-Hackathon by Dreamspace (2025) – *Runners-up*

Yarl Geek Challenge - Juniors (2018) – *Best Web Application*

Mahapola Scholarship - *Awarded by the Government of Sri Lanka to pursue undergraduate studies.*

Language Proficiency

English: Fluent
Tamil: Native