

PRAGEETH JAYASINGHE

SOFTWARE ENGINEER

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SUMMARY

A responsible, dedicated, and results-oriented software engineer with six months of experience in software development. Proficient in various programming languages such as Java, C, C++ and JavaScript, with solid expertise in modern web frameworks. Experienced in building scalable and maintainable software solutions with a strong focus on both front-end and back-end development. Well-versed in RESTful API integration, with a keen eye for writing clean, efficient, and well-documented code.

WORK EXPERIENCE

Trainee Software Engineer

2024 Jan - 2024 Jul

CodeGen International (Pvt) Ltd

Maradana, Sri Lanka

- Worked as a full-stack developer on AutoFlex IDE, improving core functionalities and benchmarking against Selenium IDE.
- Built automation pipelines with Docker, optimized CI/CD workflows, and implemented branch-based versioning.
- Enhanced testing by customizing TestNG listeners, automating Jira issue tracking, and improving debugging.
- Resolved critical system issues, fixed dependency conflicts, optimized the AutoFlex initializer, and refined test execution for better performance.

EDUCATION

B.Sc. (Hons) in Information Technology

2021 - 2025

University of Moratuwa

- CGPA - **3.58 (Second upper)**

GCE Advanced Level

2019

Mahanama College Colombo

- IT: A | Combined Maths: B | Physics: C

TECHNICAL SKILLS

- Languages:** C, C++, Java, JavaScript, TypeScript, Python, HTML, XML, JSON, CSS
- Web Development:** React, Angular, Next.js, SpringBoot, Express, Bootstrap, Tailwind, Material UI, Node.js, JVM
- DevOps and APITools:** Git, Docker, GitLab CI/CD, Postman, Vercel, Railway, Jira
- Database:** SQL(MS-SQL,MySQL), MongoDB
- AI/ML & Automation Tools:** PyTorch, Transformers, Google Gemini multimodal API
- Tools & Platforms:** Graphviz, LangChain, LangGraph, SimulIDE, Atmel Studio, Blender, Figma
- Other skills:** OOP, SOLID, Design Patterns, DSA, Agile (Scrum/Kanban), Debugging & Optimization
- Currently Learning / Exploring:** C#, ASP.NET Core

RESEARCH PROJECT

Automating Automata (AI-Driven Automata Diagram Generating Tool) ([FE - link](#)) ([BE - link](#))

2025

Module: Final Year Research Project (Grade: A)

- Developing an AI-powered system that generates and converts automata diagrams from text and image-based inputs, supporting ϵ -NFA to DFA conversion, Pushdown Automata, Regular Expression to ϵ -NFA transformation, and DFA minimization using AI-based solutions.
- Technologies:** PyTorch, Transformers, Python, Graphviz, Gemini 2.0 Flash, LangChain, LangGraph, Next.js, Tailwind, Google Gemini multimodal API, Vercel, Google Cloud Platform.
- AI/ML Platforms and Tools:** Google Colab, Kaggle.

UNIVERSITY PROJECTS

Online Delivery Portal ([FE - link](#)) ([BE - link](#)) module: Industry Based Project (Grade: B+)

2022-2023

Team Lead, Full Stack Developer

- As part of a software project, I contributed to the development of an online delivery portal for a laundry system. My specific role involved creating the homepage, implementing user and admin login authentication, and registering new users.
- **Technologies:** React js, NodeJs, Spring boot, Java, MySQL, CSS technologies.

Fruit Sorting Machine (Hardware project) module: ICT Project (Grade B)

2021-2022

- Designed the blueprint of the machine and the 3D model using Blender.
- Efficiently sorts and cuts ripe fruits with precision, ensuring consistency in size and quality. Enhances the overall process while optimizing fruit freshness and minimizing waste.
- **Technologies:** C programming, Atmel Studio. Atmega32 Microcontroller, SimulIDE

SOFTWARE PROJECTS

Sun Travel (Hotel management System) ([FE - link](#)) ([BE - link](#))

2024

- Developed a call center management system that enables agents to manage hotel contracts, check room availability, and handle customer inquiries efficiently.
- **Technologies:** Angular, Spring Boot, integrating RESTful APIs, JPA with Hibernate, and ModelMapper

Zecret Chat App (Real-Time Chat App) ([Link](#))

2025

- Developed a full-stack real-time chat application that allows users to send and receive messages with real-time message delivery
- **Technologies:** React.js, Node.js, Express, MongoDB, Socket.IO, Vercel

LogiLink (Package Delivery System) ([Link](#))

2025 (Ongoing)

- Developed a three-sided logistics marketplace with role-based access (User, Distributor, Courier), delivery lifecycle management and live tracking.
- **Technologies:** React, C#, .NET Core, Entity Framework, MySQL

RESPONSIBILITIES AND ACHIVEMENTS

- PR pillar - Mora Esports club (2022-2024)
- Member - Mora Hiking club (2022-2025)
- RealHack 2023 - Organized by the UOK - Participant (2023)
- Hack Moral 4.0 - Organized by INTECS, UOM - Participant (2022)
- Member of the Western Music Association
- Member of the English Literary Association

REFERENCE

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