# SRIJITH YAPARATHNA

Computer Engineering
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## SUMMARY

I am a dedicated and results-driven Computer Engineering graduate with hands-on experience in Java, React, Node.js, Spring Boot, CodeIgniter 4, MySQL, MongoDB, Docker, and AWS. I completed an internship at KONGCEPT, where I honed my skills in full-stack development and cloud-based solutions. I am passionate about building scalable software, bridging the gap between hardware and software, and leveraging technology to deliver impactful solutions. I am now seeking a software engineering role where I can apply my technical expertise and strong work ethic to contribute to innovative projects.

## EDUCATION

2021-2025          **B.Sc. Computer Engineering**, University of Ruhuna
- Specialized in Computer Engineering in Faculty of Engineering

2019          **GCE A/L Examination**, Dharmaraja College - Kandy
- Passed with 3Bs in Physical Science stream.
- District Rank – 57 (Z-core 1.5201)

## EXPERIENCE

Software Engineering Intern at KONGCEPT (Pvt) Ltd, Peradeniya, SL      Jul. 2024 to Dec. 2024 (6 months)

During my industrial training at KONGCEPT (Pvt) Ltd, I gained hands-on experience in full-stack web development. I contributed to projects using CodeIgniter 4, Angular, Node.js, React, and Laravel, working on backend development, bug fixes, feature enhancements, and database management. This experience enhanced my problem-solving skills, collaboration with developers, and understanding of agile software practices.

## TECHNICAL SKILLS

| | | |
|---|---|---|
| Programming | : | C, C++, C#, Java, Python, JavaScript/TypeScript |
| Web & Cloud | : | React, Node.js, Spring Boot, Docker, Kubernetes, CI/CD |
| Databases | : | MySQL, MongoDB |
| AI/ML | : | Scikit-learn, TensorFlow, PyTorch, LSTM, YOLO |

## PROJECTS

## GROUP PROJECTS

**Stall Reservation Management System – Colombo International Book Fair | Group Project**
Developed a full-stack reservation platform for publishers and vendors to register, view stall availability, and reserve up to three exhibition stalls. Includes email confirmation with QR codes and an employee-only portal for organizers. https://github.com/stall-reservation-system
Technologies: Java, Spring Boot, Spring Security (JWT), PostgreSQL, React.js

**Algorithm to Find the Cheapest Way to Source Ingredients | Data Structures & Algorithms**
Implemented linked lists, arrays, and hash maps to compute the cheapest price list for recipes.
Technologies: C++  https://github.com/srijithyaparathna/DSA-NEW-PROJECT

**Automated Infant Incubator Controlling & Monitoring System | Group Project**
Designed an intelligent infant incubator system featuring automated environment control, vital sign monitoring, ML-based distress detection, and real-time dashboards using IoT integrations.
Technologies: Raspberry Pi 4B+, YOLOv8,React,ThingsBoard
https://github.com/sahanrashmikaslk/incubator_monitoring_with_thingsboard_integration

**Appointment Management System | Web Application**
A web application to manage day-to-day appointments between university staff and students.
Technologies: MERN, SQL https://github.com/srijithyaparathna/AMS

**Student Management System | Desktop Application**
Developed using C#, WPF, following the MVVM architecture for maintainable code.
Technologies: C#, WPF, MVVM https://github.com/srijithyaparathna/GroupProject_4307_4176

**Socket Programming Chat Application | Console Application**
Built a multi-client chat system using socket programming and OOP to handle concurrent communication.
Technologies: Java https://github.com/srijithyaparathna/Java-Socket-Programming---Multiple-Client-Chat

## INDIVIDUAL PROJECTS

**Modern React Admin Dashboard | Web Development**
Built a responsive admin dashboard with scalable components, data visualization, and user interactions.
Technologies: React 19, React Router v6, Material-UI v7, React Pro Sidebar, @mui/x-data-grid, Formik + Yup, FullCalendar, @nivo Charts, Styled Components https://github.com/srijithyaparathna/Build-a-COMPLETE-React-Admin-Dashboard-App--React--Material-UI--Data-Grid--Light-And-Dark-Mode

**SHOPCART – Full-Stack E-Commerce Web Application**
Developed a full-stack e-commerce platform with secure authentication, product management, and payment processing. https://github.com/srijithyaparathna/Build-a-Full-Stack-E-Commerce-App-with-Next.js--MERN--Tailwind-CSS--Sanity--Clerk--Stripe---Vercel
Technologies: Next.js, React, Tailwind CSS, Zustand, Clerk, Sanity CMS, Stripe,

**Parallel Implementation of Prim's Algorithm for Large-Scale Graphs | HPC Project**
Designed and implemented serial, OpenMP, MPI, and Hybrid MPI+OpenMP versions of Prim's Algorithm to compute Minimum Spanning Trees (MST) on large 1000×1000 adjacency matrices. Evaluated performance, speedup, and accuracy across different parallel models. https://github.com/srijithyaparathna/Prims-Algrothithm-HPC-Using-OpenMP---MPI
Technologies: C++, OpenMP, MPI, Linux, GCC/G++

**Supermarket Billing System | Console Application**
Implemented a billing system using OOP concepts in C++ for modularity and reusability.
Technologies: C++ https://github.com/srijithyaparathna/SuperMarket_Biling_System

## TECHNICAL SKILLS

Red Cypher 1.0 – 2024 – Won the third place.

## REFERENCES

**Dr. Rajitha Udawalpola:** Senior Lecturer, Dept. of Electrical and Information Engineering, Faculty of Engineering, University of Ruhuna
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