

Sivarajah Niroshan

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 LinkedIn | GitHub | Portfolio

📍 Kachchai Road, Chavakachcheri, Jaffna

About Me

Final-year Computer Science undergraduate with strong interest in backend engineering, distributed systems, and full-stack application development. Experienced with modern web technologies, databases, and cloud deployment. Passionate about building scalable and reliable software solutions.

Education

- **University of Moratuwa**
BSc Eng Hons in Computer Science and Engineering May 2022 - present
 - **J/Chavakachcheri Hindu College**
GCE Ordinary Level and GCE Advanced Level Jan 2012 - Oct 2020
 - GCE Advanced Level: 3A
 - GCE Ordinary Level: 8AC

Experience

- **Software Engineering Intern - ZeroBeta** Dec 2024 – May 2025
 - Designed and developed scalable REST APIs using Java Spring Boot with MySQL integration
 - Improved application performance by implementing Redis caching and Kafka-based asynchronous messaging.
 - Automated database schema migrations using Liquibase and containerized backend services with Docker.
 - Implemented and maintained unit tests using JUnit, Mockito, and Vitest to ensure code reliability and improve test coverage.
 - Documented APIs using Swagger and ensured code quality through SonarQube analysis.

Technologies: Spring Boot, Node.js, TypeScript, React, MySQL, Docker, Redis, Kafka, AWS

Tools: Bitbucket, jira, sonarqube, postman

Projects

- **Enhancing ASR for Tamil Continuous Speech with Code Switching (Group)**
Research and Development Semester 07-08
 - Developing an Automatic Speech Recognition (ASR) system for Tamil-English code-switched continuous speech.
 - Building the data collection and preprocessing pipeline to support model training and evaluation.
 - **Student Management System (Individual)**
Java, Spring Boot, MySQL Dec 2025
 - Designed and developed a role-based Student Management System for managing students, teachers, modules, departments, and enrollments.
 - Implemented JWT-based authentication and authorization (access & refresh tokens) using Spring Security with stateless session management and BCrypt password hashing.
 - Built RESTful APIs with full CRUD operations, enforcing role-based access control (Admin, Teacher, Student).
 - Integrated Spring Data JPA & Hibernate with MySQL, applying DTOs and ModelMapper for clean API-persistence separation within a layered architecture featuring centralized exception handling and CORS configuration.

• Bank Transaction And Loan Processing System : Database Systems (Group)

React, Node.js, MySQL

Semester 03

- Developed a core banking system designed to manage branches, internal fund transfers, and loan processing.
- contributions included designing and normalizing the database structure using SQL to support various banking operations, implementing secure methods for user input handling through tailored front-end forms, and developing a SQL-based schema with role-based access controls.

Technical skills

- **Programming Languages:** Java, Python, C++, JavaScript, TypeScript
- **Web & Backend:** React, Node.js, Express.js, Spring Boot, Next.js
- **Databases:** MySQL, PostgreSQL, MongoDB
- **DevOps & Cloud:** Docker, AWS
- **Version Control:** Git, GitHub, Bitbucket
- **Developer Tools:** VS Code, IntelliJ IDEA, WebStorm, Postman, Jira

Honors and Awards

- **Mathematics Olympiad** 2014, 2015
Provincial level participation
- **Maths Quiz** 2013
2nd place in zonal level competition
- **Athletic Meet** 2015, 2016
200m, 400m, 800m, 4x400 relay provincial level participation
- **Student prefect** 2016 - 2020
J/Chavakachcheri Hindu College

Membership

- Tamil Literary Association of University of Moratuwa 2022 - Present

Other skills

Languages: English (fluent) | Tamil (native) | Sinhala (basic)

Soft skills: Quick learner, Teamwork, Communication skills, Problem solving

References

1. Prof Dulani Meedeniya

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University of Moratuwa
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2. P. Ajantha Gamage

Senior Software Engineer
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