

# 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

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- **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

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- **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/Chavakachchceri Hindu College

## Membership

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- **Tamil Literary Association of University of Moratuwa** 2022 - Present

## Other skills

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

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

## References

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### 1. Prof Dulani Meedeniya

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University of Moratuwa  
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### 2. P. Ajanthasiri Gamage

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