

# Sivarajah Niroshan

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📍 Kachchai Road, Chavakachcheri, Jaffna

## ABOUT ME

I am a dedicated, hard-working, and versatile Computer Science and Engineering undergraduate passionate about software engineering. With a strong foundation in programming, web technologies, and database systems, I thrive on solving complex problems and developing efficient, scalable solutions for real-world challenges.

## EDUCATION

### • University of Moratuwa

BSc 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 implemented a Market Data Management System as a training project to handle scalable ingestion and processing of market data.
- Developed and tested blockchain applications on the Polygon network.
- Contributed to the Ethereum Pectra upgrade, implementing and testing features aligned with the latest protocol changes.

**Technologies:** Spring Boot, Kafka, Redis, Docker, MySQL, TypeScript, React,

## PROJECTS

### • E - Calendar

React, Node.js, Express.js, MongoDB

Semester 05

- The e-Calendar application offers a wide array of features designed to streamline users' scheduling and organization processes including event and appointment creation, synchronization, reminders and notification, recurring events, sharing and collaboration, customization, time zone support, security etc.

### • RPAL Interpreter

Python

Semester 04

- Developed a comprehensive RPAL language processor in Python, including a lexical analyzer, parser, and CSE machine. The system tokenizes input code, constructs an Abstract Syntax Tree (AST), standardizes it, and executes RPAL programs using a CSE machine. Key contributions included implementing the parser and CSE machine, ensuring full compatibility with the provided RPAL interpreter. This project demonstrates proficiency in compiler design, language processing, and Python programming.

### • Bank Transaction And Loan Processing System : Database Systems

React, Node.js, MySQL

Semester 03

- Developed a core banking system designed to manage branches, internal fund transfers, and loan processing. Key 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:** Python, Java, C++, JavaScript, TypeScript
- **Web Technologies:** HTML, CSS, React, Node.js, Express.js, Spring Boot
- **Database Systems:** MySQL, MongoDB
- **Version Control:** GitHub, Bitbucket

## **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/Chavakachcheri 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**  
Professor, Department of Computer Science and Engineering  
University of Moratuwa  
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2. **P. Ajantha Sirisinha Gamage**  
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