

MOHAMATH NALEEM ZAKY AHAMED

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SUMMARY

A motivated Computer Science and Engineering undergraduate with a strong passion for software engineering. Eager to expand my knowledge and skills, I am committed to continuous learning and excited to apply my problem-solving abilities in real-world projects. Actively seeking internship opportunities to gain valuable industry experience and further develop my expertise in software engineering.

Areas of Interest: Software Development, Front-end Development, Back-end Development, Database Management.

EDUCATION AND QUALIFICATIONS

BSc (Hons) in Engineering, Computer Science and Engineering

Aug 2022 - Present

University of Moratuwa

GCE Advanced Level - Physical Science Stream

Jan 2012 - Sep 2020

Royal College - Colombo 07

- Combined Maths - A, Physics - A, Chemistry - A (Z-Score: 2.3219)

GCE Ordinary Level

Royal College - Colombo 07

- 9As

Grade 5 scholarship examination

2011

Island Rank: 01

PROJECTS

Smart Monitoring Platform for Security Cameras (Ongoing) 

Jul 2024 - Present

- Fifth semester software engineering project.
- A comprehensive software solution designed to enhance surveillance capabilities through advanced image processing, featuring both web and mobile app interfaces.
- Currently working on the backend and database of the project.

Technologies: React, React Native, NodeJS, Flask, PostgreSQL, YOLO

Contributions: Backend, Database, Documentation

RPAL Interpreter 

2024

- An interpreter for the functional programming language RPAL consisting of a lexical analyser, parser, and a CSE machine, which can execute the program by building the AST, standardising it and evaluating the program to get the output.

Technologies: C++

Contributions: Lexical Analyser and Parser

Airline Reservation System

2023

- Third semester database project
- Comprehensive airline reservation system that allows users to search for and book tickets, while enabling admins to generate detailed reports.

Technologies: React, Flask, MySQL

Contributions: Backend, Database

Snake Game (Personal project)

2024

- Developed a classic Snake game using Java, featuring responsive controls, a dynamic game board, and collision detection. The game logic and UI were implemented using the Swing framework, demonstrating skills in object-oriented programming and graphical user interface design.

Technologies: Java

Nano Processor Design

2023

- Second semester Computer organisation and Digital design project
- Designed a 4-bit Nano processor capable of performing essential operations such as addition, subtraction, left shift, right shift, and negation.

Technologies: VHDL, Xilinx Vivado

Contributions: Creating and combining components, Documentation

CORE SKILLS

- **Web Development:** HTML, CSS, React, Node.js, Flask
- **Database Management:** MySQL, PostgreSQL
- **Version Control:** Git, GitHub
- **Programming Languages:** Java, C++, Python, JavaScript
- **Tools:** VSCode, PyCharm, MS Office
- **Graphic Design:** Photoshop, Canva
- **Video editing:** Davinci Resolve, After effects, Capcut

LANGUAGES

Tamil (Native), English (Fluent), Sinhala (Fluent)

SOFT SKILLS

Leadership, Team-Handling, Teamwork, Time-management, Critical thinking & Problem Solving, Fast-Learning

EXTRACURRICULAR ACTIVITIES

Rotaract Club of University of Moratuwa

Dec 2021 - Jun 2023

- Board of Directors 2022-2023
- Chairperson - General Meeting (April 2022), Binara Padura (2022), UN days (2022), Revelation (2022)
- **Graphic Designer**, Coordinator, Company coordinator (RUR 2022)

LinkR: <https://linkr.rotaractmora.org/#/public/zakyahamed>

Alumni of Rotaract Club of University of Moratuwa

Jun 2023 - Jun 2024

- Chairperson - Kindred Kidneys (2023)

AIESEC in Colombo South**Feb 2022 - Feb 2023**

- Team Leader (OGT - 2022 Summer)
- Member (IGV - 2023 Winter)

Mora Hiking Club**Jan 2023 - Present**

- Member - Media Committee
- Organising Committee Member - Stridian 2024, StridEve 2023
- Participant and Graphic Designer - Stridian 2023

Other clubs and societies

Graphic Designer and Video editor

- IESL SB (2023)
- CSE Media Team (2023 - Present)
- Majlis-UI-Islam (2022 - Present)

Department Representative**2023**

- Computer Science and Engineering Society

EXMO**2023**

- Demonstrator

REFERENCES

Prof. Dulani Meedeniya
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Department of Computer Science and Engineering
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