

VINOJITH GUNARATNE

Undergraduate | Department of Computer Science and Engineering

@ gunaratne.19@cse.mrt.ac.lk

+94 763220387

in vinojith-g

Vinojithab17

Ampara, Sri Lanka

SKILLS

React Node.js Java

Python SQL AWS

Serverless Cypress

Git NoSQL

EDUCATION

BSc. Eng. (Hons.)

Jan 2020 – Present

- Computer Science and Engineering
- Univeristy of Moratuwa
- GPA: 3.59

Wesley High School

Jan 2010 – Aug 2018

- G.C.E. A/L (2018) Physical Science : 2A, B
- G.C.E. O/L (2015) : 9A

GRADES

- Object Oriented Programming : A
- Data Structures and Algorithms : A+
- Software Architecture and Design : A
- Database Systems : A

SOFT SKILLS

- Problem solving
- Time management
- Teamwork
- Leadership
- Critical thinking

ABOUT ME

An engineering student with a strong background in software engineering, I am actively seeking opportunities to work as a full-stack or backend developer.

WORK EXPERIENCE

Visiting Teaching Assistant Univeristy of Moratuwa Jul 2023 – Oct 2023

- Assisted students by providing guidance in lab sessions for module Programming Fundamentals and prepared Python based programming problems.

Software Engineering Internship Insighture Jan 2023 – Jul 2023

- I worked in frontend and backend of an internal product using [React](#), [Node.js](#), [AWS Lambda](#), [AWS CloudFormation](#), [Serverless](#).
- I worked on setting up a CI/CD pipeline for automatic cloud deployment using [Serverless](#) and [Github](#) workflow.
- Worked in a client project to write test automation using [Cypress](#).

PROJECTS

In-Air Signature - Final Year R&D Project Jul 2023 - Present

Technologies : [Python](#), [Computer Vision](#), [Leap Motion Controller](#), [Unity](#), [Mediapipe](#)

- Developing an innovative in-air signature authentication system addressing Intermittent Spatial Segmentation challenges (Handling Non-continuous signatures).
- Utilizing 2D and 3D camera approaches, creating an in-house dataset for model development.

Test Automation - Intern Project Jun 2023 – Jul 2023

Technologies : [Cypress](#), [JavaScript](#), [PostgreSQL](#), [Docker](#)

- I wrote test automation using the Cypress automation tool.
- I worked in staging and local environments.
- I developed a proof of concept (POC) to establish a connection to and test the PostgreSQL database within a local environment on AWS Workspace.

skyu.io - Intern Project Feb 2023 – May 2023

Technologies : [React](#), [Ant Design](#), [Redux toolkit](#), [Node.js](#), [AWS Lambda](#), [AWS CloudFormation](#), [Serverless](#)

- skyu platform allows organization to manage all cloud compute resources in one place across different providers and regions.
- Implemented Lambda functions using the Serverless framework and worked on query methods to query an S3 bucket.
- Worked on AWS CloudFormation to create access role between trusting account and trusted account. The access level is limited for trusted role (EC2 create, start, stop, restart, delete, describe).

CERTIFICATIONS

Machine Learning

- 📅 2022
- Coursera
- Regression and Classification

Problem Solving

- 📅 2020
- HackerRank
- Python

Physics Olympiad

- 📅 2017,2018
- Sri Lanka | All Island
- Bronze medalist

ACHIEVEMENTS

- SGPA of 3.89 in 6th semester
- Mora Extreme Participation
- Mini Hackathon 2.0 Participation
- Code Squad V3.0 | coding competition : Ranked Top 15
- KDMC Nenasala IT Training

REFERENCES

Sindujan K

- 🌐 sindujan-krishnamoorthy
- Senior Software Engineer
- Insighture
- 📞 +94 761182896
- @ sindujan.krishnamoorthy

Dr. Thanuja D. Ambegoda

- 🌐 thanujad
- Senior Lecturer
- Department of Computer Science and Engineering
- University of Moratuwa
- 📞 +94 702655273
- @ thanuja@cse.mrt.ac.lk

- Implemented a full work flow for cross-account access in AWS, using AWS Lambda, AWS CloudFormation, and Serverless, and wired it with the frontend with necessary UI changes.

Roster Scheduler

📅 Sep 2022 – Dec 2022

Technologies : [React](#), [Node.js](#), [Flask](#), [MongoDB](#)

- Software Engineering Project, I worked as full-stack developer.
- Shift scheduler for the doctors in a specific ward, the shifts will be decided using constraints satisfaction problem.

Airline Ticket Reservation System

📅 Jan 2022 – Aug 2022

Technologies : [React](#), [Node.js](#), [MySQL](#)

- Database Management System Project, I worked as full-stack developer.
- Web app for an imaginary airline to provide services of booking tickets online.

Simple Expense Manager

📅 Apr 2022 – May 2022

Technologies : [Java](#) , [Android Studio](#)

- Storing of account information and transactions persistent using an embedded database (SQLite).
- Added unit test cases that for adding and retrieving dummy data from SQLite.
- Set up a CI/CD pipeline using GitHub actions.

Parkinson's Disease Detection

📅 Jan 2022 – Aug 2022

Technologies : [Python](#), [React](#), [Bootstrap](#), [Node.js](#), [MySQL](#)

- A software engineering project where I worked in front-end.
- A machine learning based testing system.

Hospital's Facilities Checking System

📅 Sep 2021 – Jan 2022

Technologies : [HTML5](#), [CSS](#), [JS](#), [PHP](#), [MySQL](#)

- Object Oriented Software Development project.
- I worked as full-stack developer.

Email Client

📅 Jan 2021 – Mar 2021

Technologies : [Java](#)

- Implemented mail sending functions (sending a birthday greeting, sending an email based on the instructions given through command-line).
- Application will continuously check and retrieve new emails and serialize them as email objects).
- Used OOP principles with coding best practices.

EXTRA-CURRICULAR ACTIVITIES

- Supporting school students in Ampara through conducting seminars and exams with a volunteer based social organization (Association of Advanced Education).
- Member of Tamil literary association.
- Playing cricket.