VINOJITH GUNARATNE

Undergraduate | Department of Computer Science and Engineering

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📍 Ampara, Sri Lanka

SKILLS

React Node.js Java
Python SQL AWS
Serverless Cypress
Git NoSQL JavaScript

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 - Internship 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 - Internship 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).

- 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.