Tiran Sarith Wijerathne

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INTRODUCTION

I am a third year undergraduate studying Computer Engineering at the Department of Computer Engineering, University of Ruhuna, with a strong foundation in software development, DevOps practices, and cloud technologies. I am skilled in programming languages such as Python, Java, and JavaScript, with hands-on experience in modern tools like Docker, Kubernetes, and Terraform. My goal is to further enhance my knowledge and skills in data Science, machine Learning, DevOps, and software engineering, and apply them to push the boundaries of computer engineering.

EDUCATION

Faculty of Engineering, University of Ruhuna *March 2022 – present*
Bachelor of Science (Hons) in Engineering - Specializing in Computer Engineering *CGPA : 3.3/4.0*

Maliyadeva College Kurunegala *Jan. 2012 - May. 2021*
GCE Ordinary Level - 2017 *9As*
GCE Advanced Level (Physical Science Stream) - 2020 *2As 1B*

PROJECTS

Finance management system for a company ○

- ○ **Introduction:** Individual web project that I have developed.
- ○ **Functionality:** Finance management system that includes income and expense tracking through journal entries and invoice generation for customers.
- ○ **Technologies:** MongoDB, Express.js, React.js, Node.js, JWT for authentication, Material UI.

HR-Management System ○ ○

- ○ **Introduction:** Currently working on a group project to design and develop a real-world solution for a client, incorporating both user-side and HR-side features.
- ○ **Functionality:** Job portal with user-side vacancy search and application, and HR-side employee management, task assignment, and vacancy control.
- ○ **Technologies:** MongoDB, Express.js, React.js, Node.js, JWT for authentication, Material UI.

E-commerce Web site ○

- ○ **Introduction:** This is an ongoing DevOps group project where I am responsible for back-end development and website implementation. We have implemented JWT authentication, method-level route handling, and sign-in/login features.
- ○ **Functionality:** sellers can add products, buyers can make purchases, and an add-to-cart functionality.
- ○ **Technologies:** Spring boot, Spring security, React.js, MUI, MySQL, Docker, Kubernetes and AWS.

Breast Cancer prediction Machine Learning model in

- ○ **Introduction:** This is a group project that we have done under Machine learning model to predict breast cancers.
- ○ **Functionality:** Breast canser prediction model with an accurate level over 90
- ○ **Technologies:** Scikit-learn, Pandas, NumPy, Matplotlib, Google Colab

Finding the shortest path - DSA

- ○ **Introduction:** Developed a project under the Data Structures module, gaining practical understanding of real-life applications of data structures.
- ○ **Functionality:** The system determines the shortest path to a given destination using a linked list and array.

○ **Technologies:** C++, Singly Linked Lists, Arrays,

TECHNICAL SKILLS

○ **Programming Languages:**

Python, C++, Java, JavaScript

○ **Web Development:**

Express.js React, Node.js, Springboot, Spring Security, HTML5, CSS

○ **Cloud and DevOps Tools:**

Docker, Kubernetes, Ansible, Terraform

○ **Database Systems:**

MySQL, MongoDB

○ **Development Tools:**

GitHub, Postman, Figma, Colab

○ **Cloud Platforms:**

AWS, Azure

LICENSES AND CERTIFICATIONS

Microsoft Certified: Azure Fundamentals(AZ-900) *Credentials* ↗
  Microsoft

Completion Certificate for Introduction to DevOps *Credentials* ↗
  IBM

Leadership Management Skills For Business - Managing Employees *Credentials* ↗
  Alison

Foundation for UI/UX design *Credentials* ↗
  Google

ACHIEVEMENTS

○ **Participation in HACKSTREAM** coding competition organized by Ruhuna IEEE society
○ **EXCELLENCE IN FINANCE Award** at the PRESTIGE 2.0 organized by AIESEC in Ruhuna

ACHIEVEMENTS - SPORTS

○ **Member** of the School Cricket team	*2013 - 2014*
○ **Member** of the University Hockey team	*2023*

EXPERIENCES IN CLUBS AND SOCIETIES

○ **Local Committee Vice President Finance and Legal** -AIESEC in University of Ruhuna	*2024-2025*
○ **Team Leader** - OGX B2B AIESEC in Ruhuna	*2023*

VOLUNTEERING

○ Volunteered in **Project Green Leaders** and completed a 1.5-month volunteering web site designing project in **Surat, India**	*2023*

REFERENCE

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University of Ruhuna
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