

NISHANKAR SATHIYAMOCHAN

B.Sc(Hons) Computer Engineering(UoP)

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EDUCATION

University of Peradeniya | 2019 Nov to Present
B.Sc (Hons) Computer Engineering
◦ **CGPA 3.50/4.00**
Hartley College, Point Pedro | 2009 to 2017
GCE Advanced Level - Physical Sciences
◦ **2 A and B**

TECHNICAL SKILLS

- Languages
 - Java, JavaScript, Python, C
- Frameworks
 - Spring Boot, React.js, Django, Flask, Express.js
- Database
 - MySQL, MongoDB, DynamoDB, Neo4j
- Cloud
 - AWS
- DevOps:
 - Docker
 - Jenkins
 - Kubernetes
- Project Management
 - Jira board
- Version Control
 - Git, Github

INTERESTS

- Dev Ops
- Web Development
- Machine Learning
- Deep Learning

PERSONAL SKILLS

- Team work
- Quick learning
- Problem Solving
- Communication

LANGUAGES

- Tamil Native
- English Professional Proficiency
- Sinhala Elementary Proficiency

PROFILE

The person with a passion for **Full-stack** software Development, and **DevOps** enough to learn and practice new technologies from different fields of Computer Science and Engineering, and willing to get a handful of experiences in the industry.

EXPERIENCE

Intern - Infinity Innovators

Duration: Dec 2022 - May 2023

Project: wakka Online

- Collaborated on "Wakka Online," a New-Zealand centric platform for secure vehicle transactions.
- Employed React, Node.js, and Serverless to ensure smooth user experience and efficient backend operations.
- Leveraged AWS services for robust features and improved scalability.

Technical Environment

- Technologies: React, Node.js, Serverless framework, AWS services
- Project Management Tools: Jira board, Confluence
- Version Control: Git, GitHub

Freelancer - Fiverr

Duration: April 2022 - 2023 Sept

Project: Multiple projects

- Worked on multiple mini-projects from different Domains and technologies.

PROJECTS

Med2NET: Detecting Metastatic Tissues in Histopathological Images 2023

- Using Convolutional Neural Networks to detect the Metastatic tissues in Histopathological images.
- Integrating explainable AIs to improve the trust of the models.
- **Contribution:** Model creation and creating APIs to interact with the model using a simple UI.
- **Python | Tensorflow | Flask**

NGS Data Analyzing Tool Kit



2022

- A user-friendly web application that analyzes the genome Next Generation Sequencing(NGS) data to find the biomarkers of Alzheimer's disease.
- **Contribution:** Developed the back-end using Django and created Machine Learning Models.
- **React.js | Django | Python | MongoDB | Azure boards**

ACHIEVEMENTS

- MoraXtreame 7.0 | 2022
 - 12-hour nationwide algorithmic coding competition
- Aces Hackerthon | 2019
 - 12-hour inter university coding competition
- Hackfest | 2022
 - Project: NGS data Analysing ToolKit
- MoraXtreame 5.0 | 2020
 - 12-hour nationwide algorithmic coding competition
- Deep Speed | 2019
 - Semi-finalist
 - Line following robot competition
 - Top10 out of 80 team participants.
- Aces Hackerthon | 2022
 - 12 hours national wide coding competition
 - 12 out of 50 teams
- Pre Aces Hackerthon | 2022
 - 6 hours Inter university coding competition.
 - 1st in 25 teams

EXTRA CURRICULAM

- 1st place at National Cadet Crops training camp **2013**
- Aces Design Team member
- Volunteer **Project Nenathambara**
 - Teaching Python and Arduino to school children

REFERENCES

Prof. Roshan G. Ragel

Head of the Department
Dept. of Computer Engineering
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Sampath Deegalla

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Smart Home

2022

- Secure mobile application to control and monitor home appliances using sensors and microcontrollers.
- **Contribution:**
 - Developed the back end using Node.js and Express.js.
 - Hosted the application on AWS.
- **Flutter | Node.js | Express.js | MongoDB | AWS**

Grocery Management System (Easy Shop)

2020

- Web application to manage the grocery details of a supermarket in a database.
- **Contribution**
 - Developed the front end using HTML, CSS, and JavaScript,
 - Database using MySQL
- **HTML | CSS | JavaScript | Bootstrap | PHP | MySQL**

Smart Building

2022

- Developed hardware and software prototypes for a Smart Building System with sub-divisions -- Safety, HVAC, Energy, Safety, and Access Control.
- **Contribution**
 - Storing data from the sensors and actuators to a MongoDB database.
 - Retrieving the data helps to predict the safest path when a fire is detected.
- **NodeRed | MQTT | MongoDB**

Social Platform for University Students

- Created an interactive social media platform customized for University students and lecturers.
- **Contribution**
 - Fully developed the application from scratch.
- **NodeJs | React | MongoDB | AWS | Docker**

CERTIFICATIONS

- Image Processing with Python | Coursera | Sept 2020
- AI For Everyone | DeepLearning.AI | Oct 2020
- Algorithmic Tool Box | University of California San Diego | Aug 2022
- Programming for Everybody | University of Michigan | Sept 2020
- Google Cloud Building Scalable Java Microservices with Spring Boot and Spring Cloud | Google | Oct 2022