NISHANKAR SATHIYAMOHAN

B.Sc(Hons) Computer Engineering(UoP)

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/Nishan-Charlie



/Nishankar Sathiyamohan

EDUCATION

Nov 2018 - Present University of Peradeniya

B.Sc (Hons) Computer Engineering

CGPA

3.50/4.00

Jan 2009- Aug 2017 Hartley College Point Pedro

GCE Advanced Level - Physical Sciences

- Combined Mathematics A
- Chemistry A
- o Physics B

TECHNICAL SKILLS

- Languages
 - o C, Python, Java, JavaScript
- Frameworks
 - Node.js, Express.js, React.js, Django
- Database
 - MySQL, MongoDB
- Cloud
 - AWS
- DevOps
 - Azure DevOps
- · Version Control
 - o Git

ACHIEVEMENTS

- MoraXtreame 7.0 | 2022
 - o 12-hour nationwide algorithmic coding competition
- Aces Hackerthon | 2019
 - o 12-hour inter university coding competition
- Hackfest | 2022
 - o Proiect: NGS data Analysing **ToolKit**
- MoraXtreame 5.0 | 2020
 - o 12-hour nationwide algorithmic coding competition
- Deep Speed | 2019
 - Semi-finalist
 - o Line following robot competition Top10 out of 80 team participants.

PROFILE

The person with a passion for full-stack software Development, Machine Learning, and Deep Learning, curious 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.

PROJECTS

NGS Data Analyzing Tool Kit





2022 - Present

- 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.
- React.js | Django | Python | MongoDB | Azure boards

Smart Home





2021 - Present

- · Secure mobile application to control and monitor home appliances using sensors and micro-controllers.
- 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
 - o Storing data from the sensors and actuators to a MongoDB
 - · Retrieving the data helps to predict the safest path when a fire is detected.
- NodeRed | MQTT | MongoDB

8-bit processor

2020

- Developed an 8-bit single-cycle CPU to support a custom ISA with an ALU, an 8x8 register file, control logic, and a memory sub-system with caching techniques.
- Verilog HDL

INTERESTS

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

PERSONAL SKILLS

- Team work
- Quick learning
- Problem Solving
- Communication

LANGUAGES

Tamil Native

English Professional ProficiencySinhalese Elementary Proficiency

REFERENCES

Prof. Roshan G. Ragel

Head of the Department Dept. of Computer Engineering Faculty of Engineering University of Peradeniya roshanr@eng.pdn.ac.lk | +94773857755

Sampath Deegalla

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Dept. of Computer Engineering
Faculty of Engineering
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MINI PROJECTS

Tool to generate and display fractals



2020

- A tool to create mandelbrot or Julia fractals using Java OOP concepts.
 Multi-threading and Synchronization techniques were used.
- Java

QR code Generator



2020

- A QR code-generating application using ASCII characters without any external C libraries.
- С

Chat Application (



2022

- A Real-Time Chat application where users can register, login, and join a group to chat.
- · Node.js | Express.js | React.js | Socket.io

Morse Code Receiver and Transmitter



2019

- A real-time morse code generator using python and Arduino microcontroller. LED, Buzzer used for the Transmitter, and LDR used as the Receiver.
- Contribution
 - Designed and build the circuit. wrote the code in python.
- · Python | Arduino

CERTIFICATIONS

- Image Processing with Python | Coursera | Sept 2020
- Al For Everyone | DeepLearning.Al |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

EXTRA CURRICULAR ACTIVITIES

1 st place at National Cadet Crops training camp

2013

Aces Design Team member

• Volunteer Project Nenathambara

20222021

Teaching Python and Arduino to school children