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SKILLS SUMMARY

Programming Languages
Python, C, C++, Java ,
JavaScript, Node JS,

Frameworks
Django, Django Rest,
Express JS, React JS,
Next Js

Database System
MongoDB, MySQL
IOT

Arduino, Raspberry Pi
Numerical Computing
MATLAB, Octave

Cloud Computing
Heroku, AWS

Version control
Git, GitHub

Operating Systems
Linux, Windows

Circuit Design
Proteus

Other Skills
Agile Development Methods
Software Best Practices

CERTIFICATIONS

- AWS Fundamentals: Going Cloud-Native | Coursera
- Web Application Technologies and Django | Coursera
- Python | HackerRank
- Neural Networks and Deep Learning | Coursera
- Machine Learning by Stanford University | Coursera -Ongoing
- Project Management: The Basics for Success | Coursera

KARIKARAN VETTIVEL

COMPUTER ENGINEERING UNDERGRADUATE

PERSONAL PROFILE

Recent graduate with 5 months of experience as a full-stack software engineer and 6 months as a computer engineering intern. Skilled in Node.js, React.js, C++, and MongoDB with a passion for delivering high-quality and efficient software solutions. experience in software development methodologies and problem-solving skills. Seeking to leverage my skills and experience as a software engineer in a full-time role.

WORK EXPERIENCE

Full Stack Engineer

SPADES | June 2022 - Nov 2022

- Contributed to the design and development of a custom restaurant payment system utilizing Node.js, Next.js, and MongoDB while implementing microservices architecture.
- worked in a cross-functional team and completed tasks in agile sprints.
- Provided customer support and root cause analysis to improve the payment system by addressing and resolving customer-reported issues.

Computer Engineering Intern

Paraqum technologies | Jan 2022 - June 2022

- Developed software programs for network devices using C++ and Node.js, with a focus on performance optimization.
- Utilized Node add-ons and C++ integration for efficient data processing and improved performance of real-time large data sets.

EDUCATIONAL HISTORY

BSc. in Computer Engineering | Nov 2017 Present

University Of Peradeniya | Current GPA : 3.35/4.00

PROJECTS

Enhancement of the Efficiency of Vehicular Communication Using SDN

Aug 2021 - On going

Research focused on using software-defined networking (SDN) to enhance vehicular communication and improve the scalability and reliability of Vehicular Ad-hoc Networks for improved mobility. [GitHub](#)

Smart Vending Machine

June 2020

Developed a web application with real-time transactions which allows purchasing products. the vending machine is controlled by a cloud-based system to make sure of live transactions. [GitHub Repo](#)

Contribution: Backend development, Web API

Technologies: Django, HTML, AWS, JavaScript, Python, Django Rest

Eshop

Aug 2021

The app was designed in a way to sell and buy almost everything among university students. It shows the seller's contact number and can contact through app directly via messaging option. [GitHub Repo](#)

Contribution: Backend development, Web API, Database management

Technologies: Node Js, AWS, JavaScript, Express JS, MongoDB, Flutter

Car Rental Platform

May 2020

Users can host/rent their vehicle on this platform & users in need of vehicles can search & book the vehicles for the travel. [GitHub Repo](#)

Contribution : Database connectivity, hosting

Technologies : PHP, HTML, CSS, AWS, MySQL

AWARDS AND ACHEIVEMENTS

- LKNOG Conference 2022
Presented influential final year research at Srilankan network operators group conference.
- IEEE Innovation Nation Srilanka 2021 Participation
Selected to top 100 teams out of 1350 tems
- Rising Rotaractor Of the year 2019
Rotaract Club of University of Peradeniya
- ACES Hackathon Participation 2019
Selected to top 10 teams
- DEEP SPEED - SEMIFINALISTS 2018
Line following robot competition
Top 5 out of 80 teams participated.
- ACES Coders V8.0 - Participation
12-hour algorithmic coding nationwide competition

INTERESTS

- Web Development
- Communication Networks
- Machine Learning
- IOT

PERSONAL SKILLS

- Decision Making
- Critical & Analytical Thinking
- Team player
- Leader Ship
- Fast learner
- Innovative Thinking
- Management

REFERENCE

Prof. Roshan G. Ragel
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Dept. of Computer Engineering
Faculty of Engineering
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Email: roshanr@eng.pdn.ac.lk
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Dr. Asitha Bandaranayake
Senior Lecturer
Dept. of Computer Engineering
Faculty of Engineering
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Institute Management and Makerting Platform Dec 2020

developed a web app that manages institute staff details and markets their services. all the content on this site is dynamic data. [GitHub Repo](#)
Technologies: Django, PostgreSQL, JavaScript, HTML, CSS, Heroku

Liver Patient Identification System Aug 2021

developed a machine learning model to identify a patient with liver disease by analyzing given medical information (ALT, AST, bilirubin, etc) by the user. [GitHub Repo](#)
Contribution: Data preprocessing, building models using different algorithms
Technologies: Python scikit-learn

Fuzzy Logic Recommendation System Sept 2021

Created an FYP recommendation system using fuzzy logic to help students find the most suitable research area based on their skills and interests. [GitHub Repo](#)
Technologies: MATLAB Fuzzy Logic Toolbox

8-bit single cycle Processor Implementation Mar 2020

An ARM architecture based processor was implemented with ALU, register file, control unit, data memory, data cache, instruction memory, and instruction cache. [GitHub Repo](#)
Technologies: Verilog HDL, GTKWave

MINI PROJECTS

Auction Server in Java Jun 2020

Multi-threaded socket server for stock auctions using JAVA. [GitHub](#)
Technologies: Threads, Synchronization primitives, Sockets, OOP

A Simple Search Engine Using Python Nov 2020

Created a script enabling users to search and view relevant pages from a website through the terminal. [GitHub](#)
Technologies: Python Requests, Beautiful Soup

Fractal Visualizer May 2020

Multi-threaded application for Fractal Visualization using JAVA. [Github](#)

Calendar Event Scheduling System Mar 2021

Calendar events scheduling stand alone software. [GitHub](#)
Technologies: Python

Simple Computer System (ALU) Aug 2019

Gate Level design and implementation of a simple ALU

EXTRA CURRICULAR ACTIVITIES

Department Coordinator - IET On Campus, University of Peradeniya

Project Chairperson - Rotaract Club of University of Peradeniya

Member - ACES, University of Peradeniya