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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 ACHIEVEMENTS

- 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**  
Professor  
Dept. of Computer Engineering  
Faculty of Engineering  
University of Peradeniya  
Email: [roshanr@eng.pdn.ac.lk](mailto:roshanr@eng.pdn.ac.lk)  
mobile: +94773857755

**Dr. Asitha Bandaranayake**  
Senior Lecturer  
Dept. of Computer Engineering  
Faculty of Engineering  
University of Peradeniya  
Email : [asithab@eng.pdn.ac.lk](mailto:asithab@eng.pdn.ac.lk)  
mobile: +94715 117771

**Institute Management and Marketing 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