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SKILLS SUMMARY

Programming Languages

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

Web Development

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

Database System

MongoDB, MySQL

Deployment & CI/CD

Jenkins (Groovy scripting) ,
Ansible,Terraform

Cloud Computing

Heroku, AWS

Version control

Git, GitHub,
SVN (Subversion)

Operating Systems

Linux,Windows

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 GRADUATE

PERSONAL PROFILE

Recent graduate with over a year of combined experience in software engineering roles. Currently a Software Engineer on the Deployment and Scalability team, with prior experience as a full-stack developer and computer engineering intern. Proficient in Java, React.js, Node.js, C++, and MongoDB. Skilled in cloud deployments on AWS. Passionate about optimizing deployment processes and software efficiency. Eager to apply my diverse skill set and collaborative approach to a new software engineering opportunity.

WORK EXPERIENCE

Software Engineering

Enactor Limited | March 2023 - Present

- Contributed to the development and upkeep of the 'Deployment Portal' using Java backend and React frontend.
- Automated the deployment process of Enactor products using Jenkins, Maven, and Docker Swarm.
- Worked extensively with cloud technologies, deploying on AWS and Azure.
- Streamlined product release cycles and reduced deployment errors, enhancing the company's operational efficiency.

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

Paraquum 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 - Feb 2023

University Of Peradeniya | Current GPA : 3.40/4.00

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. [Web Page](#)

Contribution: Backend development, Web API

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

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
University of Peradeniya
Email: roshanr@eng.pdn.ac.lk
mobile: +94773857755

Dr. Asitha Bandaranayake
Senior Lecturer
Dept. of Computer Engineering
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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

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