KALINDU WIJERATHNA
3rd Year Undergraduate

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Interests

- Communication Networking
- DevOps Engineering
- Cloud Computing
- Full Stack Development
- Machine Learning

Technical Skills

- Languages: Python, C++, C, PHP, Java, JavaScript
- Networking: Cisco Routing, Switching, ASA Firewalls
- Containerization: Docker, Singularity, Kubernetes
- DevOps: Jenkins, Git CI/CD, Ansible, Teraform
- Scripting: Bash, Batch
- Cloud: AWS, Google (GCP)
- Version Control: Git/Github
- Database Systems: MySQL, Mongo DB
- Frameworks: Express, Node, React, Springboot

Certificates

AWS Cloud Solutions Architect Professional Specialization 🔗
AWS, Cousera - 4 Course Specialization

Software Defined Networking 🔗
University of Chicago

Machine Learning 🔗
University of Stanford

Education

Bsc. Eng. Hons	Mar 2021 - Present
University of Peradeniya, Specialization: Computer Engineering **CGPA: 3.50/4.00**	
Cisco Certified Network Assosiate	Completed. Jan 2020
CCNA(200-125)	*View CCNA*
Advanced Diploma in Computer Networks and Internet Protocol	Completed. Apr 2024
NPTEL, India and Alison, Ireland	*View Diploma*
Diploma in DevOps Engineering	Completed. May 2024
ClayDesk with Alsion, Ireland	*View Diploma*
GCE A/L Physical Science Stream	Completed. Aug 2019
Dharmaraja College, Kandy (A|A|A)	Z-Score: 2.164	

Projects

Digital Signage System for IT Center, University of Peradeniya | Group 🐙 | 🌐 | 🎗️   *Aug 2023 - Jan 2024*

Full Stack Development [PHP, React.js, Typescript, MySQL]

- Officially deployed on-site in Jan-2024 and actively utilized by the staff members till present
- We replaced outdated manual methods (like whiteboard schedules and physical notice boards) with a modern Digital Signage System featuring a versatile Content Management System (CMS) for dynamic content creation, scheduling, remote management, and scalability.
- Contribution:
  - Course offering content management
  - PHP backend API development with authentication and session management
  - Documentation, and User Manuals
- Collaboratively worked on
  - Overall system design, Admin dashboards, Scheduling content

Acadametrics | Group | On-going 🐙   *Apr 2024 - Present*

Full Stack Development [Java Springboot, MySQL, Tailwind, Jenkins, AWS]

- Student Result Management System for the Faculty of Engineering
- Contribution:
  - Jenkins CI/CD and AWS Deployment
- Collaboratively worked on
  - Overall System Design, both Backend & Frontend Development

Digital Twin for Road Traffic Flow Intersection | Group | On-going 🐙

Apache-Kafka, Unity-3D, Docker, Kubernetes   *Apr 2024 - Present*

- Digital Twin project aimed at simulating and automating road traffic control
- Contribution:
  - Kafka pipeline, Kubernetes cluster management
- Collaboratively worked on
  - Overall System Design

Certificates(contd.)

Generative Pretrained Transfor- -mers (GPT) 🔗
Universtity of Glasgow

Combinatorics and Algorithm Design 🔗
XuetangX Institute

Data Analytics Basics 🔗
IBM

Introduction to Linux 🔗
The Linux Foundation

Achivements

Hackathon -2023: 3rd Place (Social Service Category)
2-day idea pitching competition with 42 participating teams. Introduced an Open Source Charitable Social Platform Called "CharityVerse"

Aces Pre-Coders V10 (Group) Oct-2023 Finalists (Ranked 7th Place out of 60)
6 hour coding competition

MoraXtream 8.0 (Group) Oct-2023 (Ranked 30th Place out of 200+ Teams)
12 hour coding competition

Soft Skills

- Proficient formal writing
- Public Speaking
- Leadership
- Continuous Learning
- Efficient Problem Solving
- Adaptability

Extra Activities

- All-Island Music Competitions (School)
  - All-Island 1st: Men's Classical Singing (Group) (2017)
  - All-Island 2nd: Men's Folk Instrumental Orchestra (Group) (2017)
- Visharad - Vocal: Bhathkande Sangit Vidyapith, Lucknow (2015)
- Visharad - Violin: Bhathkande Sangit Vidyapith, Lucknow (2016)
- Singer/Violinist in School Orchestra

Pera Swarm SCARA (Swarm Capable Modular Robot) | Group ⌂ | 🌐
Embedded Systems[Raspberry Pi zero-W, ATtiny85] *Oct 2023 - Jan 2024*
& Full Stack Development [MongoDB, Express.js, React.js, Node.js, AWS]
- Developed as a subproject within the department-wide long-running project "Pera Swarm".
- Under this project, we redefined the swarm robot as a highly modular and scalable unit.
- Contribution:
  - Robot arm development, Mongo DB database system, Documentation, Engineering & User Design Manuals
- Collaboratively worked on
  - Backend API development, Overall System Design

Pera Link (Social Media Platform for the Peradeniya University Community) | Group ⌂ | 🌐 *May 2023 - Aug 2023*
Full Stack Development [Express.js, Vue.js, Node.js, MySQL]
- Contribution:
  - Backend API development
- Collaboratively worked on
  - Overall System Design

Elective Course Recommendation System | Group | On-going ⌂
Machine Learning [SVM, LDA, Multilayer Perceptron] *Apr 2024 - Present*
- Collaboratively worked on
  - Overall System Design, Model Development

8-bit Single Cycle RISC-V Computer Processor | Two Members
Computer Architecture[Verilog] ⌂ *June 2023 - Aug 2023*
- Developing an 8-bit single-cycle computer processor from scratch, based on RISC architecture, integrating ALU, and register control logic with a memory hierarchy implementation.

CLI To-Do-List app for Server Computers | Personal ⌂
[C++, Bash Scripting] *Dec 2023 - Present*
- Developed a command-line interface (CLI) to-do-list application tailored for server computers, utilizing C++ and Bash scripting to assist in efficient task management for server admins and CLI users.

Volunteering / Leadership

Singularity Containerization Project | DL Workflow Team Member
Singularity Container Installation Project on the Computer Engineering Department's High Performance(HPC) Servers (July 2023 - Dec 2023)

Project Nenathambara | Finance Lead
A nationwide chain of IT workshop projects aimed at fostering interactive IT education and awareness across Sri Lankan schools

Junior Prefect
St. Anthony's College Kandy

Music Society of the University of Peradeniya | Member (2022/2023)

References

Prof. Roshan G. Ragel
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