

Kavindu Jayasooriya

📍 Kurunegala, Sri Lanka

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🔄 KavinduJayas

Education

**Bachelor of the Science of Engineering
Specializing in Computer Engineering,**
University of Peradeniya

11/2018 | Peradeniya, Sri Lanka

Current GPA: 3.77

G. C. E. Advanced Level, Maliyadeva College

03/2015 – 08/2017 | Kurunegala, Sri Lanka

Combined Mathematics: A, Physics: A,

Chemistry: B

Skills

Tools and Technologies (Azure Cloud
Platform, Git, MERN stack, Tensorflow, FastAPI,
Selenium, JUnit, Linux, GitHub),

Languages (Python, Java, C, C++, TypeScript,
SQL)

Certificates

- Problem Solving - HackerRank [🔗](#)
- Programming Fundamentals - Coursera [🔗](#)
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning [🔗](#)
- PHP - SoloLearn [🔗](#)
- Python -HackerRank [🔗](#)

Professional Experience

Casual Instructor, University of Peradeniya

11/2021 – 04/2022

Provided assistance in conducting laboratory classes for the course "Programming and Networking for Electrical and Electronics Engineers".

Profile

Third-year computer engineering undergraduate at the University of Peradeniya ready to bring the skills sharpened by interesting projects to an internship and further challenge them to gain more hands-on experience.

Projects

Telemedicine Platform [🔗](#)

07/2021 – present

MERN Stack, Redux, Selenium, Azure cloud computing services, Git

- Implemented a peer-to-peer video chat for the platform based on WebRTC.
- Configured a coTurn server to relay the video chat when the p2p connection fails.
- Used Socket.io javascript library to implement the real-time text chat feature.
- Created the back-end RESTful API with Express framework.
- Documented the API with swagger.
- Implemented end-to-end testing with Selenium to test the overall functionality of the system.
- Used jest framework for unit testing the components.

ML Based Industry Performance Analysis System [🔗](#)

02/2022 – present

Python, scikitlearn, tensorflow, FastAPI, React

- Used agile scrum methodology for product development.
- Worked with a scrum team of 3 members and a scrum master.
- Had weekly sprint planning sessions with the product owners.
- Used Azure DevOps services for product management and CI/CD.
- Created the performance dashboard visualizations using chart.js library.

Database for a B2B trading platform [🔗](#)

09/2020 – 12/2020

Django, Bootstrap, SQL

- Designed a relational database for B2B Online Trade Community.
- Created a minimally-functional user interface to demonstrate database functionality.

Casual Instructor, University of Peradeniya

10/2022 – 12/2022

Provided assistance in conducting laboratory classes for the course "Network and Web Application Design".

Organizations

Association of Computer Engineering Students (ACES), University of Peradeniya, Member

02/2020 – present | Peradeniya, Sri Lanka

Hackers' Club, University of Peradeniya, Member

01/2020 – present | Peradeniya, Sri Lanka

The Institute of Engineers Sri Lanka (IESL), Student member

06/2021 – present | Peradeniya, Sri Lanka

Extra Curricular Activities

Music Society University of Peradeniya

05/2019 – present | Kandy, Sri Lanka

<https://music.soc.pdn.ac.lk/>

The Ceylon University Dramatic Society of the University of Peradeniya

05/2019 – present | Kandy, Sri Lanka

<https://drama.soc.pdn.ac.lk/>

Project Nanathambara University of Peradeniya

03/2022 | Peradeniya, Sri Lanka

<https://www.nenathambara.org/introduction/>

References

Dr. Asitha Bandaranayake,

Senior Lecturer, Dept. of Computer Engineering,
University of Peradeniya
asithab@eng.pdn.ac.lk

Dr. Isuru Nawinne,

Senior Lecturer, Dept. of Computer Engineering,
University of Peradeniya
isurunawinne@eng.pdn.ac.lk

Smart Building

05/2022 – 10/2022

NodeRED, MQTT, MongoDB

- Worked on the fire safety of the building.
- Programmed the ESP32 controller to listen to MQTT topics and control actuators.

Vital Monitoring System

04/2022 – 05/2022

Java

- The system had vital monitors that broadcast their identity via UDP.
- A gateway server was implemented that discovers vital monitors asynchronously and hands them over to worker threads.
- Worker threads initiate TCP connections with the discovered monitors.

8-bit RISC CPU model based on MIPS architecture

10/2020 – 12/2020

Verilog-HDL

- Designed and simulated a single-cycle processor model with a custom ISA.
- Created sample programs using ARM assembly.

Fractal Visualizer

11/2020 – 12/2020

Java

- Built a command line application to paint fractals.
- Efficiency was improved using thread-level parallelism.

Compiler for COOL language (Guided)

01/2022 – 04/2022

COOL, C++

- Created a compiler for the object-oriented language COOL.
- Implemented and tested individual components lexer, parser, semantic analyser and code generator.

Competitions and Hackathons

Hacktitude

02/2022

- Consisted of a mix of feature implementations, bug fixes, and algorithmic problems.
- Finished the hackathon with 28th place out of 200+ teams with 600+ undergraduates.

Credential