Kavindu Jayasooriya

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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**

Skills

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

Professional Experience

Casual Instructor, *University of Peradeniya*
Provided assistance in conducting laboratory classes for the courses ”Programming and Networking for Electrical and Electronics Engineers” and "Network and Web Application Design".

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

Profile

Third-year computer engineering undergraduate at the University of Peradeniya shows a strong interest in **Software Engineering** and **Machine Learning** 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.

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.

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.

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.

Fractal Visualizer
11/2020 – 12/2020
Java
- Built a command line application to paint fractals.
- Efficiency was improved using thread-level parallelism.