

Kavindu Jayasooriya

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🔄 KavinduJayas



Education

11/2018 – 10/2023 Peradeniya, Sri Lanka	COMPUTER ENGINEERING BSc hons (Eng) <i>University of Peradeniya</i> Current GPA: 3.7
03/2015 – 08/2017 Kurunegala, Sri Lanka	G. C. E. Advanced Level <i>Maliyadeva College</i> Combined Mathematics: A, Physics: A, Chemistry: B

Courses

Advanced Database Systems	Data Structures and Algorithms
Network and Web-Application Design	Software Engineering
Machine Learning and Data Mining	Computer Communication Networks
Programming Methodology	Software Construction
Computer Systems Engineering	Compilers
Operating Systems	Computer and Network Security
Embedded Systems	Computer Architecture

Projects

07/2021 – present	Telemedicine Platform  <i>MERN Stack, Redux, Selenium, Azure cloud computing services, Git</i> <ul style="list-style-type: none">• Implemented a peer-to-peer video chat for the platform based on WebRTC.• Configured a coTurn server to relay the video chat.• 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.
02/2022 – present	ML Based Industry Performance Analysis System  <i>Python, scikitlearn, tensorflow, FastAPI, React</i> <ul style="list-style-type: none">• Used agile scrum methodology for product development.• Worked with a scrum team of 3 members and a scrum master.• Had weekly sprint planing sessions with the product owners.• Used Azure DevOps services for product management and CI/CD.• Created the performance dashboard visualisations using chart.js library.

09/2020 – 12/2020	Database for a B2B trading platform ↗ <i>Django, Bootstrap, SQL</i> <ul style="list-style-type: none"> Designed a relational database for B2B Online Trade Community. Created a minimally-functional user interface to demonstrate database functionality.
04/2022 – 05/2022	Vital Monitoring System ↗ <i>Java</i> <ul style="list-style-type: none"> 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.
10/2020 – 12/2020	8-bit RISC CPU model based on MIPS architecture ↗ <i>Verilog-HDL</i> <ul style="list-style-type: none"> Designed and simulated a single-cycle processor model with a custom ISA. Created sample programs using ARM assembly.
11/2020 – 12/2020	Fractal Visualizer ↗ <i>Java</i> <ul style="list-style-type: none"> Built a command line application to paint fractals. Efficiency was improved using thread-level parallelism.
01/2022 – 04/2022	Compiler for COOL language (Guided Project) <i>COOL, C++</i> <ul style="list-style-type: none"> Created a compiler for the object-oriented language COOL. Implemented and tested individual components lexer, parser, semantic analyser and code generator.

Skills

Tools and Technologies

Azure Cloud Platform, Git, MERN stack, TensorFlow, FastAPI, Selenium, JUnit, Linux, GitHub

Languages

Python, Java, C, C++, TypeScript, SQL

Certificates

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| <ul style="list-style-type: none"> Problem Solving - HackerRank ↗ PHP - SoloLearn ↗ | <ul style="list-style-type: none"> Programming Fundamentals - Coursera ↗ Python -HackerRank ↗ | <ul style="list-style-type: none"> Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning ↗ |
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Competitions and Hackathons

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| 02/2022 | Hacktitude <ul style="list-style-type: none"> 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 ↗ |
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Professional Experience

11/2021 – 04/2022	Casual Instructor <i>University of Peradeniya</i> Provided assistance in conducting laboratory classes for the course "Programming and Networking for Electrical and Electronics Engineers".
10/2022 – 12/2022	Casual Instructor <i>University of Peradeniya</i> Provided assistance in conducting laboratory classes for the course "Network and Web Application Design".

Organizations

02/2020 – present Peradeniya, Sri Lanka	Association of Computer Engineering Students (ACES), University of Peradeniya <i>Member</i>
01/2020 – present Peradeniya, Sri Lanka	Hackers' Club, University of Peradeniya  <i>Member</i>
06/2021 – present Sri Lanka	The Institute of Engineers Sri Lanka (IESL)  <i>Student member</i>

Extra Curricular Activities

05/2019 – present Kandy, Sri Lanka	Music Society University of Peradeniya https://music.soc.pdn.ac.lk/ 
05/2019 – present Kandy, Sri Lanka	The Ceylon University Dramatic Society of the University of Peradeniya https://drama.soc.pdn.ac.lk/ 
03/2022 – present	Project Nanathambara University of Peradeniya https://www.nenathambara.org/introduction/ 

References

Dr. Asitha Bandaranayake, Senior Lecturer, Dept. of Computer Engineering, University of Peradeniya
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