Harshana Wijerathne

Full Stack Engineer | BSc Engineering

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Kegalle, Sri Lanka | LinkedIn | GitHub

Profile Summary

I am a dedicated Graduate Engineer from the University of Moratuwa with a strong passion for exploring and expanding my knowledge in the software industry. I am eager to pursue opportunities in the IT industry to advance my career as a Software Engineer. As a fast learner, collaborative team player, and enthusiastic technologist, I am driven by the desire to apply technology in solving real-world challenges. I look forward to working with professionals who share my commitment to excellence and my enthusiasm for innovation.

Core Competencies

Programming Languages: Java, JavaScript, TypeScript, Python, Dart
Frameworks: Spring Boot, React, Angular, Node.js, Express, Flask
Databases: MySQL, PostgreSQL, MongoDB
Tools: Git, Maven, Docker, JWT, Socket.io
Other Skills: RESTful APIs, Machine Learning, Web Development, UI/UX Design

Professional Experience

IJSE | Software Engineer Intern   Sep 2024 – Present
- Developed software applications using Java, JavaFX, MySQL, and PostgreSQL.
- Worked with Spring Boot and Angular for enterprise-level applications.
- Utilized Git for version control and collaborative development.

GPV Lanka | Intern   Jan 2023 – Jul 2023
- Automated soldering process using a robotic arm controlled via Python.
- Designed and implemented a Kaizen process management system.

Project Experience

1. ChatLy | MERN Online Chat App   Sep 2024 – Present
- Developed a real-time chat application using Node.js, Express, MongoDB, and Socket.io.
- Implemented JWT authentication and secure API communication.
- Designed a responsive and intuitive user interface with React
- GitHub

2. SkyDesk | Remote Desktop Application   Dec 2024 – Feb 2025
- Developed a remote desktop application with screen sharing, file transfer, and video calls.
- Used JavaFX, Maven, and Socket programming.
- Created a custom protocol to transfer data between client and server through streams.
- GitHub

3. Machine Learning-Based Pb Replacement for Perovskite Solar Cells   Aug 2023 – Jul 2024
- Trained ML models (Random Forest, SVM, Gradient Boosting) for bandgap prediction.
- Developed a web app using Flask and React for user interaction.
- Achieved a prediction accuracy of over 78% for perovskite bandgap values.
- Web App | GitHub

4. Athena Web Browser Web Server Development   Jan 2025 – Feb 2025
- Built a web browser with JavaFX and a web server to understand HTTP protocols.
- Built a URL destructer by manually crafting HTTP response protocols and sending them to the server, which returned custom HTTP responses.
- GitHub

5. Netflix Clone — Frontend Project   Sep 2024 – Oct 2024
- Developed a responsive Netflix clone using React and Tailwind CSS.
- GitHub

Education

BSc (Hons) Engineering, University of Moratuwa   Jan 2020 – Jul 2024
Second Class Upper Division (GPA: 3.55)

G.C.E. Advanced Level, Kegalu Vidyalaya, Kegalle   Jul 2015 – Aug 2018
3A's in Physical Science Stream (IR: 476 | DR: 18)

Extra-Curricular Activities

- Volunteer at LEO Club University of Moratuwa
  - Kalagana project at Mathara. Released a cow
  - Pinnawal zoo childrens day project
  - Pinnawala elephant platform cleaning
- Head Prefect at Kg/Ekirigiyagla Vidyalaya.
- Organizer of Blood Donation Campaigns.
- Member of university Buddhist Society and school sports teams
- Member of Karate, Cricket, Volleyball in Kg/Ekiriyagala K.V.