Kithmina Siriwardana

Associate Software Engineer

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Experience

Axcer Innovations (Pvt) Ltd   **September 2023 to March 2024**
Intern Software Engineer

During my internship, I gained comprehensive full-stack development experience working with both backend and frontend technologies. On the backend, I worked with Node.js frameworks (Express.js, LoopBack, Nest.js) and Python Flask to develop RESTful APIs and microservices. I used React.js and Next.js to create responsive UI components for frontend development. I gained hands-on experience with cloud infrastructure through AWS services (EC2, S3, Amplify, RDS) and Vercel deployments. My database work involved MongoDB and PostgreSQL, including GraphQL integration for optimized data operations. I also contributed to AI implementation projects using Stable Diffusion through Automatic1111 and ComfyUI. Throughout the internship, I actively participated in technical discussions, code reviews, and documentation while collaborating with the development team.

Education

Sri Lanka Institute of Information Technology (SLIIT)   **Expected graduation: March 2025**
BSc (Hons) in Information Technology, Specializing in Software Engineering

- Weighted GPA: 3.44 / 4.00

Royal College Wayamba (WRC), Kurunegala   **2006 - 2020**
School Education

- **GCE A/L Examination - 2020**
    - General English - A, Combined Mathematics – C, Physics – S, Chemistry – C
- **GCE O/L Examination - 2017**
    - 8 A's including ICT and Commerce, 1 C - English Literature

Projects (Major Ones)

Optical Insight: Research Project (Grade: A)   **December 2023 – November 2024**
Website link

Optical Insight is an advanced web-based platform that leverages hybrid deep-learning models to detect eye diseases. Designed for clinical use, it offers a seamless interface for uploading retinal images and receiving accurate, AI-powered diagnostic insights in real-time.

Technologies: Next.js, Nest.js, Python Flask, MongoDB,
                      Deep Learning (ResNet-50, VGG16, YOLO) LLM, Open CV

PickPay: Online E-commerce Platform   **November 2024**

PickPay is an innovative e-commerce platform offering a seamless experience through a customer-friendly mobile app and a vendor-focused web app.

Technologies: React, ASP.NET Core, Bootstrap, MongoDB, Kotlin

Tech Bridge Lanka   **November 2023**

A web application that helps the Sri Lankan community to reduce the digital divide in Sri Lanka.

Technologies: MERN Stack, React Bootstrap, HTML, CSS, Jest

Collaborative Shopping Platform   **September 2023**

A buying and selling web application that interacts with both sellers and buyers in one place.

Technologies: MERN Stack, Material UI, HTML, CSS, Docker, Kubernetes

EduHub Mobile Application   **October 2022**

EduHub is a mobile application that helps users improve their general knowledge by participating in quizzes.

Technologies: Android Studio, Java, Firebase

Technical Skills

- **Programming Languages**
  JavaScript, HTML, CSS, Java, C, C++, PHP, Python, C#

- **Frameworks and Libraries**
  React, Next.js, Node.js, Express.js, Nest.js Spring Boot, ASP .NET

- **Cloud and Deployment**
  AWS (Amplify, S3, RDS, Route 53, EC2, IAM, CloudWatch)

- **Databases**
  MySQL, MS SQL, PostgreSQL, MongoDB, Firebase

- **AI and ML**
  Machine Learning, Stable Diffusion, Deep Learning, Large Language Models

- **IDEs & Application Awareness**
  VS Code, Visual Studio, Eclipse, Docker PgAdmin, Postman, Android Studio,

- **Others**
  Git, Agile Scrum, MVC architecture, Microservice architecture, MS 365

- **Additional Skills**
  Leadership, Adaptability, Time Management, Problem-Solving, Self-Learning, Communication (English, Sinhala)

Certifications

- Responsive Web Design - freeCodeCamp
- MongoDB for SQL Professionals - MongoDB University
- JavaScript Essential Training - LinkedIn Learning
- Node.js Essential Training - LinkedIn Learning
- Learning Git and GitHub - LinkedIn Learning
- Introduction to Cloud Computing - Coursera
- Excellence in Recognition of Academic Excellence (Feb 2021, June 2024) - SLIIT
- Certifications for Chess
- Certifications from prize giving in school - WRC

References

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