JANINDU MUNASINGHE

Software Engineer Intern

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Skills

Programming Languages: Java, JavaScript, Python, SQL
Frameworks/Libraries: React, Spring Boot Next.js
Database systems: PostgreSQL, MySQL, MongoDB, Firebase
DevOps and Infrastructure : Docker, Kubernetes, GCP(Google Cloud Platform), Cloud Run
Version Control and CI/CD: GitHub, GitHub Actions

Education

Sri Lanka Institute of Information Technology (SLIIT)   June. 2021 – June 2025
B.Sc(Hons) in Information Technology specializing in Software Engineering   *Malabe, Sri Lanka*

C.W.W Kannangara Central College – Matugama   2016 – 2018
Passed GCE(A/L) in Physical Science   *Kalutara*

Work Experience

Apps Technologies (Pvt) Ltd.   Aug 2024 – Feb 2025
Software Engineer Intern
- Developed and upgraded features for an ERP system using Laravel PHP and MySQL.
- Resolved various types of bugs and optimized database operations using Eloquent ORM.
- Implemented interactive frontend components using HTML, Tailwind CSS, and AJAX requests.
- Collaborated on both backend and frontend to improve system functionality and user experience.
- Acquired hands-on experience in full-stack development, debugging, and database management.

Projects

InnoAInsure — LLM-Based Multi-Agent Platform for Workplace Task Automation | *Flask, React*
- Developed a motor insurance customer risk prediction model using XGBoost, improving risk assessment accuracy.
- Utilized Llama 3.3 70B to generate human-readable explanations for risk scores based on feature importance.
- Built a Flask backend and React (PrimeReact) frontend for a seamless user experience.
- Implemented a document processing solution that auto-extracts key information from insurance forms, reducing data processing time by over 95%.
- Designed a containerized microservices architecture using Docker to ensure scalability and portability.
- Automated CI/CD pipelines with GitHub Actions for seamless deployment and cost-effective scaling.
- Deployed the full application to a Kubernetes cluster on Google Kubernetes Engine (GKE) for improved orchestration, scalability, and resilience.

CareerFlow — Java, Spring Boot Microservice Project | *Java, Spring boot, Docker, Kubernetes, Zipkin*
- Designed and developed a scalable microservices architecture using Java, Spring Boot, and Spring Cloud, implementing 3 micorservices.
- Built RESTful APIs for CRUD operations, integrating with PostgreSQL databases and leveraging JPA for data persistence.
- Integrated asynchronous messaging between two microservices using RabbitMQ for decoupled communication.
- Implemented inter-service communication using Feign clients and service discovery with Netflix Eureka.
- Enabled distributed tracing with Zipkin and centralized configuration with Spring Cloud Config Server.
- Containerized services for Docker deployment and configured environment-specific properties for local, Docker, and Kubernetes setups.

NASA API | *React, Three.js*
- Create a frontend application to fetch and display data from NASA's API.
- Structured the UI with React, optimizing state management and component-based design.
- Integrated Three.js for rendering 3D models.
- Deployed the application on Vercel, enabling seamless hosting and continuous deployment.
- URL - https://nasa-api-jet.vercel.app

Certifications

- AI/ML Engineer Stage 1 – SLIIT 2024.
- Postman API Fundamental Student Expert – 2024 Jan.
- AWS Educate Introduction to Cloud 101.
- AWS Educate Getting Started with Storage.
- Java Application Development – University of Colombo 2021.