Krishan Danushka Aberathna.

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Github : <u>Github Profile</u> | Linkedin : <u>Linkedin Profile</u> | Portfolio : <u>Portfolio web</u>

About Me

I am an undergraduate software engineering student with 1.5 years of hands-on experience in software development and practical exposure gained through a completed internship. Starting from full-stack development, I have built a solid foundation in software engineering, and my growing passion for artificial intelligence and machine learning drives me to specialize in building intelligent, data-driven systems. I have experience with AI/ML frameworks, model training, and deployment, alongside strong skills in problem-solving, teamwork, and leadership. Dedicated to continuous learning, I aim to pursue a career as an **AI/ML Engineer**, contributing innovative solutions that optimize processes, deliver business value, and enhance user experiences.

Key Competencies

- Full-Stack Development
- Database Management
- Problem-Solving & Debugging
- Leadership ,Teamwork & Agile Methodologies
- Version Control & Collaboration
- Model Training,Evaluation & Deployment
- Machine Learning
- Familiar with Cloud Technologies

Work Experience

Software Engineering Intern | Qcetl | March 2025 - August 2025

- Developed a Restaurant Management System using FastAPI, Python, React, Vite, PostgreSQL, and WebSocket, following a microservices architecture to ensure scalability and modularity.
- Built a Printer Agent Service with Python, PostgreSQL, and WebSocket, enabling reliable communication and integration with POS systems.
- Designed and implemented an SNMP Trap Service in Rust with PostgreSQL, improving network monitoring and system alerts.
- Collaborated in an Agile/Scrum environment, participating in daily standups, sprint planning, and using GitHub for version control and peer code reviews.
- Gained hands-on exposure to firewalls (FortiGate, Cisco, Palo Alto) and strengthened knowledge in Machine Learning and AI technologies, expanding technical expertise for future applications.

Software Developer | 4GbxSolutions | June 2023 - June 2024

- Developed and maintained web applications using Laravel, React, Next.js, Vite, and Livewire, delivering responsive and scalable solutions.
- Designed and integrated databases with MySQL and MongoDB, ensuring efficient data storage and retrieval.
- Collaborated with clients to gather requirements and successfully delivered projects on time, meeting business and customer expectations.

Educations

Staffordshire University, England
Bachelor of Engineering (Hons) in Software Engineering
2023 – 2026

IT Guru Global
Diploma in Graphic Design and Freelancing
2022 – 2023

Alison (Online Learning Platform)
Diploma in Building High-Accuracy Models with Core Machine Learning
2024

ICBT Kandy Campus, Sri Lanka
Diploma in English
2021 – 2022

Technical Skills

AI / Machine Learning Skills:
- Python (Pandas, NumPy, TensorFlow)
- MLflow, Roboflow
- Jupyter Notebook, Google Colab
- Apache Airflow (workflow automation)
- Model Training, Evaluation & Deployment

Programming Languages:
- Python, JavaScript, PHP, Rust, Kotlin, SQL

Frameworks & Libraries:
- FastAPI, React, Next.js, Vite, Laravel
- Flutter, Jetpack Compose, React Native
- Express.js (MERN Stack)

Databases:
- MySQL, PostgreSQL, MongoDB, Firebase

Tools & Technologies:
- Git, REST APIs, Docker, Netlify, n8n,Vercel

Version Control:
- GitHub, Bitbucket

Development Practices:
- Agile (Scrum, Kanban),Documentation & Technical Writing,Developer Testing

Projects

Restaurant Management System | FastAPI, Python, React, PostgreSQL,
- Developed a restaurant management system handling orders, table management, inventory, payments, and kitchen operations.
- Implemented real-time updates using WebSockets and secured access with JWT authentication, improving system reliability and user experience.

Printer Service Agent | Python, PostgreSQL
- Built a cross-platform receipt printing service for Windows, macOS, and Linux, ensuring smooth integration with the POS system.
- Designed for reliability and scalability, supporting consistent printing workflows across multiple environments.

SNMP Trap Receiver Service | Rust, PostgreSQL
- Designed and implemented a service to listen on UDP 162, decode messages, resolve OIDs via MIBs, and classify events.
- Built modular components including Trap Receiver, Parser, MIB Resolver, Classifier, and Persistence Layer, enabling structured event processing and storage.

Logistics Management System | Laravel, MySQL, MongoDB, React
- Designed and developed a logistics management web application with features including email verification, dark mode, dashboards (customer/admin), real-time chat, and analytics.
- Integrated two databases (MySQL & MongoDB) for optimized data handling and reporting.
- Improved communication efficiency with a real-time chat system and increased usability through dark mode support.

House Price Prediction Model | Python, Scikit-learn, Pandas, NumPy
- Built a machine learning regression model to predict house prices using historical datasets.
- Applied data preprocessing, feature engineering, and model evaluation techniques to improve accuracy.

Movie Website | Spring Boot, React, REST APIs
- Developed a movie website with a Spring Boot backend and a React frontend, delivering a modern, responsive, and user-friendly interface.
- Implemented core features including user authentication, movie listings, search functionality, and rating system, improving engagement and usability.
- Integrated REST APIs for dynamic content handling, ensuring smooth communication between backend and frontend.
- Focused on scalable architecture, performance optimization, and secure data handling, aligning with industry best practices.