Jithnuka Weerasinghe

Software Engineer

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Summary

Software Engineer with hands on experience building enterprise scale systems, AI powered platforms, and full stack applications. Currently working as an Associate Software Engineer at Cloudimite, developing backend services, APIs, authentication workflows, and data driven systems. Previously contributed to enterprise systems at MAS Holdings, reducing application processing latency by 90% and integrating secure LLM powered analytics. Strong in backend engineering, applied AI, and building scalable software with measurable business impact.

Core Skills

Backend & Systems: GraphQL, REST APIs, Spring Boot, ASP.NET, Node.js, Playwright, Microservices, FastAPI/Flask
Programming: Python, Java, JavaScript, C, C#, R
Machine Learning: PyTorch, TensorFlow, Scikit-learn, LangChain, RAG, GNNs
Databases: SQL Server, MySQL, MongoDB, Oracle, MariaDB, MS SQL SMS
Cloud & DevOps: AWS, Docker, CI/CD, Cloudflare, Vercel
Frontend: React.js, Next.js, React Native, HTML5, Tailwind CSS, Tree.js, CSS3, JavaScript, Angular
Core Strengths: System Design, Performance Optimization, Distributed Systems Thinking
Soft Skills: Leadership, Communication, Team Collaboration, Problem Solving, Adaptability

Experience

Associate Software Engineer - Cloudimite 2026 – Present

- Developed and integrated secure APIs and automated data extraction workflows workflows for PropTec, handling authentication, external system communication, OCR based processing, and structured data retrievaldelivered the official website for EpicTalk Podcast, featuring a centralized content management system for managing podcast episodes, videos, guests, and other digital content.
- **Tech Stack :** Next.js, React, TypeScript, Express.js, Node.js, PostgreSQL, Prisma, NextAuth.js, Tailwind CSS

Software Engineering Intern — MAS Holdings Nov, 2025 – Aug, 2026

- Developed manufacturing platforms for 100+ users, reducing manual reporting by 92% (120s → 10s) and API latency by 90% (11s → 1s) through RBAC, database optimization, and AI powered analytics & reporting.
- Reduced deployment time by 83% (180s → 30s) and failures/downtime by 20% through CI/CD and Cloudflare hardening; contributed to code reviews and unit testing with 85% coverage.
- Developed a Power Apps based real time tracking system with scan based event capture, eliminating manual timestamp updates and improving production traceability.
- **Tech Stack :** FastAPI, Python, SQLAlchemy, JavaScript, LLMs, Playwright, Power Platform, Scikit-learn

Software Developer (Part time) May, 2026 – Dec, 2025

- Developed and delivered the official website for EpicTalk Podcast, featuring a centralized content management system for managing podcast episodes, videos, guests, and other digital content.
- **Tech Stack :** Next.js, React, TypeScript, Express.js, Node.js, PostgreSQL, Prisma, NextAuth.js, Tailwind CSS

Projects

ProDeX — Scalable PTP & PLM Manufacturing System

- Engineered a multi tenant manufacturing platform supporting 200+ dynamic schema fields using ORM based architecture, enabling scalable and flexible production workflows with RBAC based access control for 100+ users with middleware permission enforcement, achieving sub second query performance on datasets of 50,000+ rows.
- Integrated AI powered reporting with LLM based data analysis,smart PDF generation, data analysis, graph visualization, and Playwright driven workflow automation, cutting report turnaround by 95% (1 hour → 3 minutes)based web automation for workflow execution.
- **Tech Stack:** FastAPI, Python, SQLAlchemy, Seaborn, Scikit learn, LLMs, JavaScript, Playwright, Jinja2

HighwayLink — AI Integrated Carpooling Platform Github | Live App

- Developed a full stack ride sharing platform with JWT authentication, RBAC authorization, and real time updates.
- Integrated an AI assistant for trip optimization, reducing estimated trip time by 80% using with external APIs (maps, and weather intelligence), and deployed thevia containerized application throughrchitecture using Docker, Vercel, and Railway CI/CD pipelines.
- **Tech Stack:** React, Spring Boot, MongoDB, Docker, JWT, WebSockets, Generative AI, OpenStreetMap

EpicTalk Podcast Website Github | Web

- Built a podcast platform hosting 20+ episodes with 2s average page load time, showcasing featured guests and behind the scenes content with integrated streaming and social media connectivity.
- Built a CMS dashboard with secure admin authentication, cutting episode publishing time by 92% (60s → 5s).
- **Tech Stack:** HTML, CSS, JavaScript, Bootstrap, PHP, Laravel, PhpMyAdmin, CMS

STORIOX — Desktop Inventory & Sales Management System Github | Live Demo

- Developed a desktop based inventory and sales management system enabling product, supplier, customer, and sales management with automated stock tracking and low stock notifications.
- Implemented secure authentication, CRUD operations, database driven workflows, and analytical reporting features with cutting manual stock reconciliation time by 90% via automated tracking and Excel export.
- **Tech Stack:** C#, Windows Forms, .NET, MS SQL Server Management System, SQL, Excel/CSV Export

Enterprise Manpower Recruiter Platform Github

- Architected and developed a recruitment platform connecting employers and job seekers, implementing RBAC based workflows for Employers, Seekers, and Administrators with bilingual English/Sinhala localization.
- Implemented JWT authentication, bcrypt password hashing, parameterized SQL queries, and connection pooling, improving application security, data integrity, and backend reliability.
- **Tech Stack:** Next.js, React, TypeScript,, Express.js, Node.js, PostgreSQL, Prisma ORM, NextAuth.js, Docker

Education

University of Kelaniya 2023 – Present
BSc in Statistics & Computer Science — GPA: 3.34

University of Colombo School of Computing 2024 – 2025
Diploma in Information Technology

Rahula College, Matara 2007 – 2021

Certifications

- Full Stack Development — UOM
- Python Programming — UOM
- Incident Response & Digital Forensics - HashX
- AI Fundamentals — Microsoft
- Information Security — HashX
- Getting Started with Storage & Cloud - AWS

Awards & Recognition

- **Appreciation Letter** — Python Workshop Tutor, Department of Statistics & Computer Science, UOK
- **Research Presenter** — ICAPS - International Research Symposium, University of Kelaniya
- **Final round Participant** — Data Science Hackathon, University of Colombo

Leadership & Activities

- Junior Treasurer — Statistics & CS Students Association (2024–2025)
- Chair Person — Leo Club & Rotaract Club, University of Kelaniya (2025)

References

Dr. H. W. B. Kavinga
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