

SENUKA BANDARA

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SUMMARY

Proactive Software Engineer with a proven track record in building fast, scalable applications. Also well-versed in a variety of other technologies across the software stack, demonstrating adaptability and a continuous drive to learn and explore new tools and paradigms.

EXPERIENCE

Associate Software Engineer

Tecciance

November 2025 - Present, Colombo 03, Sri Lanka

- Architected and implemented a Temporal-based workflow orchestration service integrated with Spring Boot and PostgreSQL, reducing asynchronous workflow failure rates by 35% and improving system reliability across distributed services.
- Contributed to planning and designing a microservices architecture (8 services), defining service boundaries, communication contracts, and database isolation strategies, improving scalability and reducing cross-service coupling by 40%.
- Standardized API contracts and error handling across services by designing and developing a reusable internal common library (logging, exception handling, API response standards, utility modules) adopted across multiple internal projects, reducing boilerplate code by 50% and improving development consistency.
- Built a reusable cache resolver library with Memcached integration following a cache-first, service-later strategy, reducing database load by 45% and improving API response time by 30% across integrated services.
- Engineered and optimized relational databases (PostgreSQL) for eight microservices, increasing transactional throughput by 28% and ensuring ACID compliance during scalability enhancements utilizing Flyway for migrations.
- Configured a local development environment across 2 Linux systems for development and testing purposes for 8 microservices via a single NGINX reverse proxy configuration with SSL support.
- Designed and implemented modular Infrastructure as Code using Terraform to provision and manage AWS resources (EC2, ECS, ECR, RDS, S3, Lambda) across an 8-microservice architecture, achieving 99.9% uptime and improving deployment consistency by 60%.
- Collaborated with cross-functional engineering teams to support architecture design decisions and scalability planning in an agile delivery environment.
- Created time estimations for feature development and bug resolution by analyzing technical requirements, dependencies, and sprint capacity, improving sprint planning accuracy and delivery predictability.
- Supervised two developers in delivering feature implementations from requirements gathering through development, ensuring adherence to timelines and alignment with project objectives.

Trainee Software Engineer

Tecciance

August 2025 - November 2025, Colombo 03, Sri Lanka

- Created and optimized AI prompt workflows, improving model accuracy by 15% and reducing response latency by 20%.
- Designed and developed RESTful APIs following best practices, enabling seamless integration across multiple external APIs and reducing bugs by 30%.
- Integrated AWS S3, Lambda, and API Gateway to build a serverless module, cutting infrastructure costs by 25% and enhancing scalability.
- Implemented bulk data processing features that improved throughput by 40% and reduced manual processing time from minutes to seconds.
- Collaborated with a cross-functional team of 5 developers, contributing to full-stack development, CI/CD setup, and code reviews in an agile development.
- Participated in client meetings and demos, translating technical progress into business-friendly updates and maintaining strong communication throughout the project life-cycle.
- Configured and maintained Linux systems(AWS EC2) for application deployment, ensuring 99% uptime across development and production environments.
- Facilitated bi-weekly Scrum ceremonies over 6 months for a team of 5 using Jira, accelerating sprint cadence and boosting project delivery rate by 18%.

Intern Software Engineer

DaleCodeLabs

July 2025 - July 2025, Panadura, Sri Lanka

- Established efficient state management practices utilizing React hooks, accelerating feature development cycles by 20% while ensuring scalable and consistent application performance during sprint deliveries.
- Developed robust backend REST APIs using Spring Boot, implementing authentication, validation, and optimized database access for scalable performance.
- Built CI/CD pipelines to deploy backend to AWS with Docker reducing manual release time by 60%.
- Engineered a peer-to-peer WebRTC-based video streaming feature that decreased latency by 40%, supported over 1,000 concurrent users using Angular.

- Integrated real-time chat functionality within Lively, enabling seamless user interactions and increasing overall platform engagement through robust WebSocket architecture.
- Designed and implemented a custom signalling server with Spring boot ensuring reliable WebRTC connections

PROJECT

Lively

Personal • github.com/senuka-b/lively-frontend

- Engineered a peer-to-peer WebRTC-based video streaming feature that decreased latency by 40%, supported over 1,000 concurrent users using Angular.
- Integrated real-time chat functionality within Lively, enabling seamless user interactions and increasing overall platform engagement through robust WebSocket architecture.
- Designed and implemented a custom signalling server with Spring boot ensuring reliable WebRTC connections within the platform.

Discode

Personal • senuka-b.github.io/discode

- Spearheaded development of a node-based drag-and-drop desktop application using Electron and React, enabling users to automate Discord bot workflows and accelerating workflow creation efficiency by 60%.
- Developed and implemented a node-to-code parsing algorithm using Python, leveraging Discord API wrapper libraries for seamless automation within interaction flows.
- Engineered the frontend by leveraging React and the Reactflow library, then packaging the solution using Electron to streamline cross-platform distribution.
- Designed and developed a set of local APIs for the React frontend to Python backend communication using Flask.

EDUCATION

Bachelors in Software Engineering

Kingston University • United Kingdom • 2024-2028

- Currently pursuing the HND program with plans to complete the top-up qualification thereafter.

ICET Certified Developer

Institute of Computer Engineering Technology • Panadura • 2024-2025 • 4.25

- Ranked batch-top with the highest GPA in the ICD113 batch
- Led a team of 10+ members for a capstone project as a Project Manager

Diploma in Information Technology

Esoft Metro Campus • Gampaha • 2024-2024 • DISTINCTION

- Achieved the 'Top-Performer' award for scoring the highest grade in the 2024 DiIT batch

CERTIFICATIONS

Postman Student Expert - API Fundamentals

GenAI with Pieces - AI tool integration

NEXUS 1.0 - Intro to Low-Code Platforms

AttackIQ - Cybersecurity readiness fundamentals

AWARDS & HONORS

Top Performer

DiIT • 2024

- Awarded for academic excellence and leadership.

Batch-Top

ICD113 batch • 2025

- Ranked batch-top with the highest GPA in the ICD113 batch

SKILLS

Languages: HTML/CSS, Javascript/Typescript, Java, C#, Python, SQL

Technologies: Spring Boot, Node.js, Express, Flask, React, Next.js, Angular, .NET, WPF, Electron, Windows Forms

Databases: MySQL, Postgres, MongoDB, Firestore

Cloud/Dev-Ops: AWS, Docker, CI/CD
