

YASAS BANUKA GUNASENA

Software Engineering Undergraduate

Horana, Sri Lanka | +94 72 144 0872 | yasasbanukagunasena@gmail.com

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Software Engineering undergraduate with hands-on experience building full-stack, backend, and AI powered applications using Java, TypeScript, Python, Spring Boot, and Next.js. Skilled in designing REST APIs, relational, NoSQL databases like PostgreSQL, MongoDB, and implementing JWT based authentication, with practical exposure to microservice architecture including service discovery, API gateways, and centralized configuration. Published open source packages to Maven Central and npm, with a consistent track record of independently designing, building, and documenting complete applications end to end. Seeking a Software Engineering Internship to contribute to production focused projects while learning from experienced engineers.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, SQL, Dart

Backend: Spring Boot, Spring MVC, Spring Data JPA, Spring Security, Node.js, Express.js, NestJS

Frontend: React, Next.js, Flutter, Tailwind CSS

Databases: PostgreSQL, MySQL, MongoDB, Firebase

Tools: Git, GitHub, Docker, Maven, npm, Postman, IntelliJ IDEA

Concepts: OOP, MVC, REST, JWT, Microservices, Data Structures & Algorithms, Design Patterns

PROJECTS

Kadlok - Cloud-Native Parking Platform

Java · Spring Boot · Spring Cloud (Eureka, Config Server, Gateway) · Node.js/Express · PostgreSQL · MongoDB · Docker

- Designed and built a microservices backend spanning 4 services (parking, vehicle, and payment in Spring Boot, plus a user service in Node.js/Express) for a real-time parking management system.
- Implemented service discovery with Netflix Eureka and centralized configuration via a Spring Cloud Config Server.
- Built a Spring Cloud API Gateway with JWT-based token verification on every request before routing to the appropriate service.
- Applied a database-per-service architecture using PostgreSQL for parking, vehicle, and payment services, and MongoDB to keep services independent.
- Implemented row-level locking to prevent double-booking of parking spots, with cross-service confirmation checks before finalizing bookings.
- Documented the full API via Postman collections for every service.

GitHub: [kadolk-backend-microservice](#)

Arcaive - AI Career Assistant

TypeScript · Python · Next.js · Spring Boot · LangChain4j · LiveKit

- Built a full-stack job application platform with a Spring Boot backend and a Next.js frontend to replace manual, spreadsheet-based application tracking.
- Implemented authentication with email/password and Google/GitHub OAuth2 sign-in, secured with JWT.
- Integrated LangChain4j to parse uploaded resumes and extract achievements as structured data.
- Built a job search feature that aggregates listings from LinkedIn and Indeed via the Serper.dev API.
- Designed a voice-based mock interview feature using LiveKit for real-time conversational interview practice.

GitHub: [arcaive](#)

Curo - Developer Secrets Manager

Next.js · MongoDB · Node.js · Docker · Microsoft Azure

- Built a platform for teams to securely store and encrypt environment variables and application secrets, replacing insecure sharing over chat and email.
- Developed a REST API backend with Node.js and a Next.js frontend, using MongoDB for encrypted secrets storage.
- Configured automated CI/CD deployment using GitHub Actions and Microsoft Azure.
- Built a companion CLI tool and npm package to pull secrets directly into a project's .env file with a single command.
- Containerized the application with Docker for consistent cross-environment deployment.

GitHub: [curo](#) | Live Demo: [curo.besuon.com](#)

Todalk - Voice-Controlled To-Do List App

Flutter · NestJS · PostgreSQL · Deepgram (Speech-to-Text / Text-to-Speech)

- Developed a cross-platform mobile to-do application enabling hands-free task creation via voice input.
- Built the backend with NestJS and PostgreSQL, supporting authentication via email/password or Google sign-in.
- Integrated Deepgram over WebSocket for real-time speech-to-text conversion and spoken response generation.
- Designed a step-by-step conversational flow to capture task, due date, and priority before saving.
- Implemented JWT authentication with refresh tokens for secure, persistent user sessions.

GitHub: [todalk](#)

ACHIEVEMENTS AND CERTIFICATIONS

- **3rd Place - Semester Final Project, IJSE (2025):** Ranked 3rd out of the whole batch for building and following proper software implementation, code quality, and architecture in the semester final project.
- **Java - Hackerrank Certified (2026):** Successfully cleared the HackerRank Java skill evaluation.
- **SQL - HackerRank Certified (2026):** Verified proficiency in SQL query design, data manipulation, and filtering algorithms.
- **JavaScript - HackerRank Certified (2026):** Passed the skills assessment covering JavaScript language fundamentals, functions, and object operations.

EDUCATION

Graduate Diploma in Software Engineering

Institute of Software Engineering (IJSE), Sri Lanka | Aug 2024 - Present

Secondary Education - Engineering Technology / Technology Stream

Negombo South International School, Sri Lanka | 2010 - 2024

REFERENCES

Udara San: Founder, Director & CEO, Sans Technologies | **Email:** sans@sans-technologies.com | **Phone:** +94 77 882 0729
Shamodha Sahan: A. Tech Lead, Softcare Technologies | **Email:** shamodha@ijse.lk | **Phone:** +94 76 262 2427