



BHANUKA SIRIWARDANA

Backend-focused Senior Software Engineer

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Künzell, Germany
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TECH STACK

- Node.js
- Java
- Spring
- TypeScript
- JavaScript
- MongoDB
- SQL
- AI
- Redis
- AWS
- NoSQL
- CICD
- Docker
- OOP
- DynamoDB
- OAuth2.0
- Maven
- RESTful APIs
- Microservices
- Python
- Serverless
- IaC
- Bash
- gRPC
- Kafka
- HTML
- CSS
- Angular
- Vue.js
- Haskell
- Web Sockets

PROFILE

- Node.js & Java Specialist
- Backend
- AI
- M.Sc.
- 5+ Years Experience
- Fullstack
- Fintech
- Distributed Systems
- Senior Software Engineer
- Cloud
- All-rounder

OPEN SOURCE

NPM module: local-sqs-trigger
Identified the need while building SQS-triggered Lambdas locally; shipped an open-source TypeScript tool (LocalStack) that mirrors Lambda polling, batching, and message lifecycle in a separate runner so handler code stays clean and deploys unchanged. Repo link in GitHub profile / CV bio.

ABOUT ME

Dynamic backend software engineer with 5+ years of experience specializing in Fintech and distributed systems. Proficient in Node.js, Java, MongoDB, AWS, customized AI-based solutions and skilled in building scalable web applications. Passionate about tackling challenging projects with a proactive approach to problem-solving and delivering high-quality solutions.

EXPERIENCE

Technical Lead | Valorem Health GmbH (a subsidiary of Kielo Research)

Since 07 2024 | Bochum, Germany

- Adaptable engineer in a fast-paced startup, leading a small team, balancing quick delivery with long-term code quality. Skilled in taking full ownership, making strategic decisions to meet evolving product demands while fostering best coding practices.
- Stack: Node.js, AWS, MongoDB, Pandas, LangChain, Vue.js, Tailwind, GitHub CI/CD

Part-time Software Engineer | Retraced GmbH & RPTU Kaiserslautern

06 2022 – 01 2023, 08 2023 – 06 2024 | Kaiserslautern, Germany

- Collective Stack: Node.js, Oracle, Docker, ElasticSearch, Neo4J, React.js, REST APIs

Senior Software Engineer | Yaala Labs - <https://www.yaalalabs.com>

04 2021 – 03 2022 | Colombo, Sri Lanka

Cloud-native, multi-tenant SaaS wealth management platform on AWS

- Product: <https://wealthos.cloud/>. Was fully acquired by JPMorgan Chase in 01/2026.
- Collaborated as senior developer on design, development, and testing. Handled reconciliation logic and transactions – the heart of the system. Mentored team members and facilitated knowledge transfer sessions.
- Stack: Node.js, TypeScript, Microservices, AWS (DocumentDB-MongoDB, Step Functions, CloudWatch, Lambda, EC2, DynamoDB, etc.), Docker, Redis, REST APIs

Software Engineer | Yaala Labs - <https://www.yaalalabs.com>

02 2020 – 03 2021 | Colombo, Sri Lanka

EQONEX - Production-running NASDAQ-listed Cryptocurrency Trading Platform

- As an outsourced Software Engineer, I played a key role, serving as a backend developer, I actively addressed critical bug fixes and worked on two of the three main backend components related to trading – the API Server and a Gateway in FIX protocol. Through dedicated efforts, I significantly contributed to stabilizing the product. I diligently fixed existing bugs and performance issues, successfully bringing the platform from a less stable state to a robust and dependable state. Beyond routine tasks, I innovatively developed a tool from scratch to collect performance-related statistics from an API Gateway and designed/implemented a dedicated application component to handle web-socket related tasks.
- Stack: Java, PostgreSQL, Kafka, Bash, Linux, REST APIs, Web Sockets, JMeter, JProfiler

LANGUAGES

English: **Professional / C1**

German: **Basic / A2 (Completed A2.3 in 09.2025)**

SCHOLARSHIPS



DAAD Excellence scholarship winner
01 2024 – 06 2024



Deutschlandstipendium scholarship winner
10 2023 – 03 2024

CERTIFICATIONS



The Node.js Master Class

AWARDS



Finalists: Presidential Hackathon, Taiwan
06 2019



Champions: Datathon, CodeSprint 3.0 Hackathons
2018-2019

SPORTS



Sri Lankan National B
2010 – 2015



Club Team Member
Post SG Kaiserslautern



Club Team Member
PSV Badminton Fulda

VOLUNTEERING



Visiting Instructor (Volunteer)

Each year supervise a few Computer Science undergraduate teams at the University of Moratuwa in designing and developing assigned applications.



AIESEC Volunteer
Participated in an eight weeks long volunteering project to help school children in Malaysia to learn English and develop communication skills.

Equity Trading Platform

- Took charge of a main application component in its early stages, transforming it into a comprehensive module. Served as the primary developer, implementing critical functionalities such as providing an API to do CRUD operations for entities preserving atomicity, maintaining an in-memory database for performance reasons, publishing data downstream via multiple channels, and handling fault tolerance scenarios. Extended contributions to multiple other application components within the project.
- **Collective Stack:** [Node.js](#), [Java](#), [TypeScript](#), [JavaScript](#), [MongoDB](#), [Redis](#), [Docker](#), [Kafka](#), [Bash](#), [PostgreSQL](#), [AWS](#), [Maven](#), [Vert.x](#), [REST APIs](#), [Linux](#)

Trainee Software Engineer (Internship) | [CodeGen International](#)

📅 05 2018 – 12 2018

📍 Colombo, Sri Lanka

- Revamped travel-domain data crawling by building a full-featured internal dashboard and backend for the crawling team. Designed a limited-access UI and an intermediate API (via MQTT) to securely expose selected functionality to the wider R&D team, enabling controlled communication with a locally hosted backend.
- **Stack:** [Java](#), [Spring](#), [Maven](#), [JUnit](#), [MQTT](#), [Angular](#), [HTML](#), [CSS](#), [MySQL](#), [Elasticsearch](#)

EDUCATION

M.Sc. in Computer Science | [RPTU Kaiserslautern-Landau, Germany](#)

- Final GPA: 1,5. **Specializations:** Distributed Systems, Information Systems.

B.Sc. in Computer Science Engineering | [University of Moratuwa](#)

- Highest-rated TU in Sri Lanka. Selected among the top 2.5% of students nationwide.

ADDITIONAL PROJECTS/EXPERIENCE

Interactive Portfolio RAG Chatbot | <https://chat.bhanukas.dev>

- Designed and operated a RAG system indexing CVs, publications, and background documents into persistent Chroma, enabling low-latency, source-grounded Q&A via hybrid (vector + keyword) retrieval.
- Implemented cost- and correctness-focused guardrails (cache-aware PDF diffing, multilingual moderation, validation/retry to deal with LLM hallucinations).
- Deployed with isolated test and production environments using infrastructure-as-code (IaC) for reproducible deployments and safe iteration.
- **Infra:** [Terraform](#), [AWS API Gateway](#), [EC2](#), [Amplify](#), [EventBridge](#), [ACM](#), [Cloudflare](#), [SNS](#)
- **Tech:** [Python](#), [FastAPI](#), [LangGraph](#), [Chroma](#), [Groq/OpenAI](#), [WebSockets](#), [Nuxt.js with SSR for SEO-optimized rendering](#)

Language & Duplicate Detection in OER | [University College, London](#)

- Collaborated with a research team to deduplicate and sanitize a large SQL database of crawled content using bucketing & vector similarity with Pandas, Scikit-learn.

Trading Data Consumer PoC | [Personal Project](#)

- High-load real-time Kafka-based microservices system processing trading data with PnL calculation, out-of-order trade reconciliation, manual offset management for reliability, and in-memory buffering with MongoDB persistence.
- Configurable stream generator, manual offset management for reliability, and a dashboard for real-time monitoring.
- **Repository:** <https://github.com/BhanukaRC/trading-data-consumer-poc>
- **Stack:** [Node.js](#), [TypeScript](#), [Kafka](#), [MongoDB](#), [gRPC](#), [Docker](#)