

Adrian Perera

Senior Software Engineer

Jyväskylä, Finland

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PROFESSIONAL PROFILE

Senior Software Engineer with 6+ years of professional experience building scalable, cloud-native and high-performance software systems, primarily in Financial Technology and blockchain. Strong backend development experience with Java/Spring Boot and TypeScript/NestJS, together with hands-on experience in distributed systems, event-driven architectures, AWS, Kubernetes, Kafka, PostgreSQL and Redis.

Experienced in working remotely with distributed teams and taking ownership of technical problems from investigation and design through implementation and deployment. Comfortable working independently, researching unfamiliar problems, and getting myself unblocked while collaborating effectively with teammates and stakeholders.

TECHNICAL SKILLS

Programming	Java, TypeScript, JavaScript, SQL, Solidity, Python
Backend	Spring Boot, NestJS, REST APIs, JDBC, Prisma
Frontend	ReactJS, jQuery, AJAX, HTML, CSS, Bootstrap
Distributed Systems	Apache Kafka, Event-driven Architecture, Microservices
Cloud	AWS, S3, Lambda, EC2, ECS Fargate, SQS, Amplify, CloudWatch, GCP
Databases	PostgreSQL, MySQL, Redis, MongoDB
Blockchain	Solidity, Ethereum, Polygon, Avalanche, Web3.js, Chainlink, Hardhat
DevOps	Kubernetes, Helm, Docker, CI/CD, Git, GitLab, Maven
Tools	Linux, Bash, IntelliJ IDEA
AI-assisted Development	Claude Code, GitHub Copilot

WORK EXPERIENCE

Senior Software Engineer Contract— ZeroBeta Inc.

October 2025 – Present

Jyväskylä, Finland

- Designed and implemented a custody contract layer for collateral asset pledging and settlement mechanisms for digital asset infrastructure.
- Contributed to the design and implementation of microservices for the cloud-native Blueshift Risk Product, focusing on scalable financial risk management and processing workflows.
- Headed as the technical lead on an R&D initiative exploring the development of a non-custodial wallet for the Canton Network.
- Researched and worked with DAML and Canton Network concepts while evaluating distributed ledger architecture and asset-management workflows.
- Collaborate with engineers and stakeholders to design, implement and deliver production-ready solutions.

Tech Stack: Java 21, TypeScript, Solidity, Hardhat, HashSphere, DAML, Canton Network

Senior Software Engineer – ZeroBeta Inc.

January 2023 – September 2025

Colombo, Sri Lanka

Innovo Markets

- Contributed as the primary backend developer improving and maintaining Innovo Markets, a platform enabling the trading of Renewable Energy Certificates represented as NFTs.
- Spearheaded the design, maintenance and enhancement of backend services, focusing on reliability, maintainability and code quality.
- Revamped the database architecture to support complex user, order and transaction-related functionality.
- Enhanced buy flows, inventory management and transaction-processing workflows to improve system efficiency.
- Implemented Request for Quote workflows, notification systems and manual trade-management functionality.
- Debugged and improved blockchain-related functionality and collaborated with stakeholders and clients to deliver production releases.

Tech Stack: NestJS, TypeScript, Prisma, PostgreSQL, AWS SQS, ECS Fargate, S3, Amplify, CloudWatch, Avalanche, Smart Contracts, Redis, Docker, CI/CD

Blueshift Risk Product

- Contributed to the development and enhancement of Blueshift, a cloud-native financial risk-management platform supporting real-time risk calculations, position updates, stress testing and net spotting.
- Maintained scheduler and position-update processing modules responsible for handling high-frequency data with low latency.
- Enhanced stress-testing capabilities by optimizing backend workflows and processing logic.
- Refactored critical components to improve code quality, maintainability and operational efficiency.
- Contributed to both backend and frontend components with a focus on performance and scalability.

Tech Stack: Java, Spring Boot, ReactJS, Kafka, Redis, MySQL, Kubernetes, Docker, AWS S3, Lambda, EC2, CloudWatch, Maven, Git

Software Engineer – ZeroBeta Inc.

July 2021 – January 2023

Colombo, Sri Lanka

Blueshift Order Management System

- Led the backend development of a high-performance Order Management System designed for low-latency, real-time order processing.
- Designed and implemented the backend architecture using Spring Boot, Kafka, JDBC and REST APIs to process and manage large volumes of orders.
- Developed the system with a focus on scalability, reliability and consistent performance across real-time and batch-processing workflows.
- Contributed to DevOps activities including Kubernetes, Helm and Docker deployments and established a dedicated AWS environment for the application.
- Worked with distributed messaging and caching technologies to support high-performance order processing.

Tech Stack: Java, Spring Boot, Kafka, JDBC, Redis, MySQL, REST APIs, Kubernetes, Helm, Docker, AWS

YellowHeart Project

- Contributed to blockchain-based ticketing and digital asset solutions across Ethereum and Polygon mainnets and testnets.
- Developed and deployed Solidity smart contracts supporting token issuance and redemption functionality.
- Researched and integrated Chainlink oracles to provide external data to blockchain-based applications.
- Implemented a comprehensive ticket-redemption system supporting web, mobile and dedicated redemption platforms.
- Integrated TaxCloud to support automated digital-asset tax calculations.
- Designed and implemented REST APIs supporting customized event leaderboards and related platform functionality.

Tech Stack: Java, JavaScript, Web3.js, Solidity, AWS S3, PostgreSQL, REST APIs, Kafka, Linux, Bash

Software Engineering Intern – Applova Inc.

July 2019 – December 2019

Colombo, Sri Lanka

- Contributed to the development and enhancement of the company's administration website.
- Designed and implemented a Return on Investment calculator to help users analyze financial data.
- Developed an autocomplete business-search feature using the Google Places API with real-time suggestions.
- Created integration documentation for embedding the autocomplete functionality across web platforms.
- Conducted a technical and cost-analysis demonstration evaluating the integration of the search functionality.

Tech Stack: Java, Spring Boot, JavaScript, jQuery, AJAX, HTML, CSS, Bootstrap, JDBC, MySQL, PostgreSQL, MongoDB, REST APIs, Google Maps JavaScript API, Google Cloud Platform

Freelance Web Developer – Upwork

January 2020 – December 2020

Colombo, Sri Lanka

- Developed web-based solutions for freelance clients, including JavaScript-based features and interactive data visualizations.
- Implemented frontend functionality and data visualizations using JavaScript and the G2 visualization library.

Tech Stack: JavaScript, HTML, CSS

EDUCATION

Master's Degree Programme in Full Stack Software Development

August 2025 – Present

JAMK University of Applied Sciences, Jyväskylä, Finland

Relevant coursework: User Centered Design, Modern Management of IT, Research Based Development, New and Emerging Technologies, Data Modelling and Back-end Development, Application Frameworks

Bachelor of Science in Engineering (Honours)

January 2016 – July 2021

University of Moratuwa, Sri Lanka

Electronics and Telecommunication Engineering

Final Grade: 3.21 / 4.00

CERTIFICATIONS

- **Complete Java Design Patterns Masterclass 2023** – Udemy, 2023
- **SOLID Principles: Introducing Software Architecture & Design** – Udemy, 2023
- **Game-Theoretic Solution Concept with Spreadsheets** – Coursera, 2022
- **Parallel Programming in Java** – Coursera, 2022
- **Organize Yourself as a Remote Worker or Self-Employed** – Coursera, 2022
- **AWS S3 Basics** – Coursera, 2022
- **Understand Banks & Financial Markets** – Udemy, 2022
- **Java (Basic)** – HackerRank, 2020
- **SQL (Basic)** – HackerRank, 2020
- **Problem Solving (Basic)** – HackerRank, 2024
- **Python (Basic)** – HackerRank

LANGUAGES

English CEFR Level : C1

Finnish CEFR Level : A2 (Finnish 1, Finnish 2 completed in JAMK)

ADDITIONAL INFORMATION

Work Style	Remote work, independent problem solving, ownership, teamwork
Availability	Open to remote and hybrid software engineering roles

HOBBIES

Chess : Member of Jyväs Shakki and regularly participate in club activities in Jyväskylä. Recently played XXXIV Heart of Finland Open Blitz tournament held in Jyväskylä.

Playing guitar and piano : . Volunteer at Gloria multicultural center for music related events.