Pinsara Weerasinghe

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Backend Software Engineer

BSc (Hons) Computer Science & Engineering graduate with **6.5+ years** of experience building high-performance backend systems across **Fintech, Aviation and Sports Tech**. Delivered low-latency **Java and Spring Boot** market data systems, then cloud-native microservices and enterprise data hubs on **AWS using Serverless Framework and AWS CDK**. Currently builds **Python microservices on Kubernetes (EKS)** for an athlete neuro-performance platform. Experienced in event-driven architecture, infrastructure as code and cloud cost optimization.

WORK EXPERIENCE

NeuroDrive Inc. • Remote • 08/2026 - Present

Sports neuro-performance platform that measures and trains how athletes see, process, react and execute.

Senior Backend Engineer • Full-time

- **Architected an eye-tracking analysis pipeline** in Python and FastAPI, turning Pupil Labs Neon gaze data into versioned saccade and smooth-pursuit scores.
- **Led the move to Zitadel for sign-in**, adding per-person sign-in, role-based access and service-to-service tokens across 5 microservices.
- **Managed AWS EKS infrastructure as code** with Terraform, Helm and ArgoCD, including GPU node groups, a VPN and Grafana/Prometheus monitoring.
- **Built a React console for consultants** to check telemetry and scoring before release to the mobile app.
- **Delivered changes through a spec-first, AI-assisted workflow** using Claude Code, Jira and Bitbucket, with pytest coverage.

Serverless Guru • Remote • 02/2023 - 08/2026

AWS cloud consultancy specializing in enterprise serverless architecture and microservices. Assigned as a Cloud Engineer to deliver high-scale data hub for Air Canada.

Senior Software Engineer / Cloud Consultant • Full-time

- **Built a reusable Python library for AWS Glue ETL jobs**, cutting compute costs by 20%.
- **Engineered CloudWatch alarms driven by log metric filters**, reducing CloudWatch costs by 2%.
- **Built an event persistence engine** with Kafka Connect and Athena for fast debugging and failure recovery.
- **Optimized data migration pipelines**, reducing processing time by 30%.
- **Led a real-time customer data ingestion platform** on Lambda and Kafka, handling over 75% of customer events.
- **Added OpenSearch indexing to high-traffic APIs**, reducing database load by 40%.

GTN Technologies (Previously Global Market Technologies) • Colombo, Sri Lanka • 06/2019 - 02/2023

A global fintech leader and institutional trading infrastructure provider connecting banks, asset managers, and wealth platforms to over 90 global capital markets via advanced e-trading engines.

Software Engineer • Full-time

- Built real-time OHLC data extraction to offload high-concurrency traffic from legacy monolithic systems, **reducing latency by 15%**.
- **Architected market data streaming engines** with Java, Spring Boot, WebSockets and TCP, reducing latency by 20% for trading clients.
- **Built price data pipelines for the FinHub integration**, expanding real-time analytics for users.
- **Moved non-critical API reads to Apache Solr**, reducing primary database load by 25%.
- **Mentored interns** in building an automated anomaly detection tool.

Intern Software Engineer • Full-time

- Engineered automated log analysis and anomaly detection tool for real-time market price backends, streaming live health telemetry to internal monitoring dashboards to streamline incident response and maintain high availability.

EDUCATION

Bachelor of Science (B.Sc. Hons) in Computer Science and Engineering

University of Moratuwa • Moratuwa, Sri Lanka • 09/2016 - 03/2021

* Completed intensive 4-year professional engineering curriculum specializing in advanced software architecture, data structures, cloud systems, and distributed computing databases.

G.C.E. Advanced Level Examination in Physical Science (Com. Mathematics, Physics, Chemistry)

Mo/Malwaththawala National School • Wellawaya, Sri Lanka • GPA: AAA • 01/2001 - 08/2014

* Achieved straight 'A' passes across all core technical subjects. Secured a highly competitive Z-Score of 2.3135, earning a District Rank of 2 out of thousands of candidates nationwide.

PROJECTS

Meridiano Ceylon – Tourism Booking Platform (www.meridianoceylon.com) • 04/2026 - 07/2026

Independent / Commercial Project

- Architected and deployed a production Next.js and Firebase travel platform. Digitizing client operations with dynamic tour package management, real-time booking enquiries, secure authentication, and optimized cloud media storage. (Next.js, Firebase, Tailwind CSS)

Data Analytics & ML Platform • 05/2020 - 03/2021

University of Moratuwa (Final Year Research Project)

- Developed a final-year ML analytics framework using NLP and Apache Spark to process large-scale driver telemetry and feedback, computing real-time QoS scores and dynamic rankings. (Apache Spark, NLP, Python, Machine Learning, Data Analytics)

VOLUNTEERING & LEADERSHIP

Department of Computer Science & Engineering, University of Moratuwa

"Decrypt" Organizing Committee Member

Coordinated event logistics, technical showcases, and visitor engagement for Moratuwa's flagship CSE exhibition.

SKILLS

Cloud & Serverless Architecture: AWS (EKS, Microservices Architecture, Serverless Framework)

Programming Languages: Dart, Java, JavaScript, Node.js, Python, SQL, TypeScript

Frameworks & Search Engines: Apache Solr, Express.js, FastAPI, Next.js, React, Spring Boot

Databases & Data Streaming: Amazon DynamoDB, Apache Kafka, Firebase, MySQL, PostgreSQL

DevOps, CI/CD & Tools: AWS CloudWatch Dashboards, Bamboo, Bitbucket, Docker, Git, Grafana, Helm, Kubernetes, Prometheus, Terraform, Zitadel (OAuth2/OIDC)