

DILAN SACHINTHA MANAGE dilansachintha.xyz

+94 (0)77 185 5521 | dilansachintha44@gmail.com | linkedin.com/in/dilansachintha44 | github/dilansachcha

SUMMARY

Recent Software Engineering Graduate, Freelance Full-Stack Developer, and Open-Source Contributor with hands-on experience architecting enterprise-scale, cloud-native systems. Proven track record designing microservices, RESTful APIs, and AI-integrated workflows. Solid foundation in Java (Jakarta EE, Spring Boot), C# (.NET), Angular, React, and deploying full-stack architectures via AWS and Azure CI/CD pipelines.

EXPERIENCE

Freelance Full-Stack Developer | Local & International Clients | *April 2024 – Present*

- Architected and delivered full-stack enterprise projects, managing end-to-end development, API documentation, Agile Sprint tracking, and automated CI/CD alongside direct client communication in remote international environments.
- Recently collaborated on end-to-end Lost & Found claim management platforms for North American clients (React, Node.js, AWS), executing complex structural database migrations from legacy MSSQL to PostgreSQL. Additionally engineered various role-based Standalone/ Web POS systems for local businesses, most recently delivering a multi-branch franchise platform utilizing NestJS and AWS Lightsail.

Chess Coach | Individual Classes, Vidyakara Balika Vidyalaya & Royal College | *August 2018 – Jan 2026*

- Conducted individual and school-level training. Developed tailored strategies and tournament plans, sharpening analytical thinking and problem-solving skills under high-pressure scenarios.

Accounting Assistant | Reliance Insurance Brokers (Pvt) Ltd. | *February 2022 – June 2022*

- Assisted in budgeting and documentation, gained hands-on exposure to financial processes, expense reconciliation, and handling confidential data, providing valuable domain insight applicable to banking and enterprise software logic.

EDUCATION

Bachelor of Science (Hons) in Software Engineering | Birmingham City University | *2022 – 2026*

- Completed full 530-credit (5,300 Notional Learning Hours) BSc Honours curriculum (affiliated with Java Institute for Advanced Technology, Sri Lanka) covering Data Structures & Algorithms, Full-Stack Development, Object-Oriented Design Patterns, AI/ML, Cyber Security, IoT, and DB Systems. Achieved Distinctions in QA, Mobile App Development, Project Management, Advanced Object-Oriented Programming, and Object-Oriented System Analysis & Design across UK Levels 4 & 5 (view full Skills Education Group Awards, UK transcripts via LinkedIn). Honours award officially confirmed by BCU Progression Board - Apr 2026 (Awaiting final certification & transcript).
- **UK Level 5: Professional Higher Diploma in Software Engineering** (ID: 51512384-01-116M)
- **UK Level 4: Professional Diploma in Software Engineering** (ID: 22798358-01-CIMN)

G.C.E. Advanced Level & Ordinary Level | Royal College, Colombo 07 | *2011 – 2020*

- Successfully passed G.C.E. A/L (Physical Science) and O/Ls. National level representation in Chess and Boxing and achieved national-level recognition (Won 2015-17 All Island School Championship) in Chess with provincial colours.

NOTABLE PROJECTS & OPEN SOURCE

- **BankingSystemEE (Enterprise Banking Portal)** – Built an end-to-end cloud-deployed system coupling an Angular frontend with a Jakarta EE backend. Focused on designing robust REST APIs and safe concurrency utilizing strict JTA rollbacks and Singleton read/write locks. Implemented an AI fraud detection transaction monitoring agent (Gemini/xAI) returning structured JSON risk assessments for security and manual admin review. Adhered to DevOps principles by writing unit/integration tests (JUnit 5, Mockito), and managing automated CI/CD pipelines and Docker containerization.

- **Featured Open Source (Eclipse GlassFish)** – Resolved global CI pipeline flakiness by fixing a core OS-level (Linux) socket allocation bug to guarantee port uniqueness (PR #26049). Patched a critical EJB container crash by implementing graceful Java Reflection validation for invalid Message-Driven Beans (PR #26043).
- **High-Concurrency Auction Platform (Java Backend)** – Engineered a high-throughput Jakarta EE auction platform utilizing Message-Driven Beans (JMS) for low-latency asynchronous processing. Implemented Singleton EJBs with strict read/write locks to guarantee thread-safe bid tracking and state management during concurrent bidding spikes.
- **GlobeMed-HMS (Enterprise Ecosystem)** – Architected a cloud-migrated microservices backend (Spring Boot) utilizing API Gateways, JWT Auth, and gRPC. Implemented event-driven architecture using Apache Kafka to decouple patient analytics and billing, with AWS containerized deployments (ECS, RDS) via CloudFormation. Integrating this cloud backend with an existing Java Swing/Hibernate desktop client utilizing GOF Object-Oriented design to enforce complex healthcare scheduling and encrypted RBAC security.
- **Lost & Found Claim Management Platforms (B2B SaaS, Enterprise Migrations)** – Collaborated on large-scale claim management systems for a US-based Cruise Line and a Puerto Rican Airport, securely managing over 190,000+ monthly passenger records. Engineered internal staff portals (React/Vite) for management workflows and executed critical structural database migrations from legacy MSSQL to PostgreSQL. Managed cloud infrastructure by deploying NestJS REST APIs on AWS EC2, storing claim evidence in S3, and globally hosting frontends via AWS Amplify.
- **Enterprise L&D Assessment Portal (B2B .NET SaaS)** – Architected a cloud-native skills evaluation system utilizing a .NET 9 Clean Architecture Web API and Angular 21 SPA. Secured via Microsoft Entra ID (RBAC) and engineered a hybrid AI Proctoring Engine (TensorFlow.js / Gemini) alongside a Zero-Trust server-side grading mechanism. Containerized event-driven background workflows via Azure Functions and KEDA (Kubernetes Event-Driven Autoscaling), orchestrating deployments to an AKS cluster via Azure DevOps CI/CD.
- **Enterprise Retail Analytics & GenAI Dashboard** – Engineered an end-to-end cloud data pipeline (Python/Streamlit), migrating static data to a serverless PostgreSQL database. Designed a decoupled ML architecture featuring Scikit-Learn models for demand forecasting and K-Means customer segmentation. Integrated a Natural Language Data Agent (PandasAI/Gemini) allowing dynamic, plain English database querying.
- **Additional Full-Stack, Android & IoT Systems** – Engineered a **Multi-branch Web POS** for a laundry franchise (SME) utilizing NestJS, Prisma, and an Electron.js hardware bridge for direct-to-USB thermal printing, integrating Twilio CPaaS for notifications. Developed an IoT attendance management platform (**AttendEase**: React Native, Java EE, ESP32) and a native Android M-Commerce marketplace driven by on-site user research to bypass agricultural middlemen (**KrushhiConnect**: Java/MVVM, Firebase). View **Healthy-Harvest** (Java Swing ERP), **Thumbait** (AI-Powered MERN SaaS), **LineChat** (Expo), **BakeLoaf** (PHP) and additional source code on GitHub. View architecture, and request client project walkthroughs via Portfolio.

TECHNICAL SKILLS

- **Languages & Frameworks:** Java (OOP, Multithreading/Concurrency, Spring Boot, Jakarta EE), C# (.NET), JavaScript/TypeScript (Angular, Node.js, NestJS, React), Python (Pandas, Scikit-Learn, Plotly, Streamlit), SQL, Bash.
- **Data & Cloud Platforms:** AWS (ECS, RDS, CloudFormation IaC), Azure (App Services, Functions, AKS, Entra ID), DigitalOcean Linux VPS, PostgreSQL, MSSQL, MySQL, MongoDB, Prisma ORM, Cloudinary, Firebase.
- **Architecture & Design:** Clean Architecture, Microservices, Event-Driven Systems (Apache Kafka, JMS, gRPC, KEDA - Kubernetes Event-Driven Autoscaling), RESTful API Development, Agentic AI Workflows (Gemini, PandasAI), ML Pipelines, API Integration (JPA/Hibernate), GoF OO-Design Patterns, SOLID Principles, MVC/MVVM.
- **Test Automation & QA:** JUnit 5, Mockito (Unit & Integration), Postman (API), JMeter (Load Testing).
- **Release Tools & DevOps:** CI/CD Pipelines (GitHub Actions, Jenkins), Azure DevOps, Kubernetes, Docker, AWS CLI, LocalStack, Jira, Swagger/OpenAPI, Git/GitHub, Maven, AI Coding Agents (AntigravityCLI, ClaudeCode)
- **Embedded & IoT Systems:** Arduino Uno, Raspberry Pi, ESP32, Arduino IDE.
- **Certifications & Learning:** Completed/ongoing certificates from major software vendors and online learning portals (view full list with credentials on Portfolio/LinkedIn).

REFERENCES

- **Kanchana Herath** | Senior Director – Core Infrastructure, Millennium IT ESP - 48, Sir Marcus Fernando Mawatha, Colombo 7. | kanchanah@mitesp.com | +94 (0)77 3402274
- **H.K.S.K.Hettikankanama** | Lecturer in Computer Science, Department of Computer Science and Informatics, Faculty of Applied Sciences, Uva Wellassa University of Sri Lanka. | sandnuni.k@uwu.ac.lk | +94 (0)70 213 0268