

# DILAN SACHINTHA MANAGE

Freelance Developer  
Software Engineering Undergraduate

+94 (0)77 185 5521

dilansachintha44@gmail.com

github.com/dilansachcha

linkedin.com/in/dilansachintha44

dilansachintha.xyz

## WORK EXPERIENCE

Freelance Fullstack  
Developer  
2024 - Present

### Web, Mobile and Desktop Application Developer

Working individually and collaboratively on full-stack projects, including database upgrades, web development, e-commerce platforms, stand-alone and mobile applications for local and international clients (Notable Projects listed below).

Individual Classes,  
Government School  
Coaching  
2018 - Jan 2026

### Chess Coach

Served as the chess coach at Vidyakara Balika Vidyalaya - Maharagama, and provided training to junior players at Royal College. Conducted individual classes, developing tailored strategies, sharpening my skills in analytical thinking, patience, strategic planning, and communication.

Reliance Insurance  
Brokers (Pvt) Ltd.  
Feb - Jun 2022

### Accounting Assistant

Assisted in budgeting, maintaining records, and handling documentation using Excel and the internal accounting system. Gained hands-on experience with expense tracking, reconciliation, and understanding financial processes, enhancing accuracy and attention to detail.

## EDUCATION

Java Institute for  
Advanced  
Technology  
2022 - 2026

### BSc (Hons) in Software Engineering - Birmingham City University

Completed core areas including object-oriented programming and design patterns, web, desktop and mobile application development, DB systems, data structures and algorithms, AI, cyber security, IoT, maths for CS, QA, and project management with UQF level 6 qualifications via UK Awards (9600 Total hrs) (awaiting final transcript/award - expected July 2026).

Royal College -  
Colombo 07  
2011 - 2020

### G.C.E. Advanced Level and Ordinary Level

Successfully passed G.C.E. A/L (Physical Science) and O/L examinations while actively participating in extracurricular activities such as chess and boxing, achieving national-level recognition (2015-17 All Island School Championship) in Chess with provincial colours.

## PROJECTS & SKILLS

Projects

Notable freelance and academic projects demonstrating full-stack and cross-platform development experience (Visit Portfolio for more details):

- GlobeMed-HMS** (Enterprise Ecosystem) - Architecting a cloud-migrated microservices backend (Spring Boot) utilizing API Gateways, JWT Auth, and gRPC. Implementing 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 that utilizes GOF Object-Oriented design to enforce complex healthcare scheduling and encrypted RBAC security.
- BankingSystemEE** (Enterprise Backend) - An end-to-end secure Jakarta EE system focusing on high-performance backend REST APIs, security, and concurrency. Implemented test automation using JUnit 5 and Mockito for core business logic, and managed release cycles by containerizing the multi-tier architecture with Docker and CI pipelines via GitHub Actions.

- **AuctionSystemEE** (Real-Time Backend) – High-concurrency Jakarta EE auction platform, with Message-Driven Beans (JMS) for asynchronous processing, and Singleton EJBs with strict read/write locks for thread-safe bid tracking and state management.
  - **Enterprise Retail Analytics & GenAI Dashboard** – 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 db querying.
  - **Lost & Found Claim Sites** – Large-scale lost-and-found claim and item management systems for a US-based Cruise Line Company and a Puerto Rican Airport. (Node.js, React(TS), MSSQL). Collaborated on db upgrades, added robust RESTful APIs for client-server communication, and maintained automated CI/CD pipelines for AWS deployments
  - **Thumbait** – AI-Powered SaaS, building a full-stack thumbnail generator utilizing the MERN stack (MongoDB, Express, React, Node). Integrated the Google Gemini API for prompt-to-image AI generation, utilizing modern web frameworks, JWT auth, and Cloudinary for automated asset management.
  - **NR Washing Plus** (Web POS) – Architected a secure, role-based REST API (NestJS/Node) and implemented a cost-optimized, self-managed DigitalOcean Linux VPS deployment.
  - **AttendEase & KrushiConnect** – Developed cross-platform IoT and M-Commerce applications utilizing Java EE, React Native, MySQL, and Android Studio (MVVM).
- (View **HealthyHarvest** (Java ERP & JasperReports), **BakeLoaf** (PHP), **LineChat** (Expo), and other projects, details and source code on GitHub. Request client project walkthroughs via Portfolio.)

## Skills

### Technical Skills

- Languages & Frameworks – Java (Enterprise OOP, Spring Boot, Jakarta EE), Python (Pandas, Scikit-Learn, Plotly, Streamlit), JavaScript/TypeScript (Node.js, React, Next.js, Express.js), SQL, C# (.NET), PHP.
- Application Architecture & Design – Microservices Architecture, Event-Driven Systems (Apache Kafka, JMS, gRPC), RESTful API Development, ML Pipelines, Generative AI Integration (Google Gemini, PandasAI), API integration with JPA/Hibernate, GoF OO-Design Patterns, MVC/MVVM, modular and fullstack architectures.
- Data & Cloud Platforms – AWS (ECS, RDS, CloudFormation IaC, Scalable Deployments), DigitalOcean Linux VPS, PostgreSQL, MSSQL, MySQL, MongoDB, Cloudinary, Firebase (Auth, database and related APIs).
- Test Automation & QA – JUnit 5, Mockito, Postman (API testing), JMeter (Load Testing).
- Release Tools & DevOps – Docker, AWS CLI, LocalStack, CI/CD Pipelines (GitHub Actions), Git/GitHub, Maven, IntelliJ IDEA, Cursor (AI IDE), Vercel, Render, InstallForge.
- Embedded & IoT Systems – Arduino Uno, Raspberry Pi, ESP32, Arduino IDE.
- Certifications & Learning – Completed and ongoing certificates, badges and courses from major software vendors and online learning portals (view full list with credentials on Portfolio/LinkedIn).

### Other Skills

- Strategic Thinking & Problem Solving – Sharpened through national-level chess, applying logical decision-making skills an experimental mindset to solve complex problems under pressure.
- Freelancing & Agile Collab – Client communication, time management, self-motivation, delivering to deadlines, collaborating effectively with international, remote environments.
- Financial & Administrative Skills (Developed as an Accounting Assistant) – proficiency in documentation, attention to detail, handling confidential data.

## REFERENCES

Kanchana Herath  
Senior Director – Core Infrastructure  
Millennium IT ESP  
48, Sir Marcus Fernando Mawatha,  
Colombo 7.

Email: [kanchanah@mitesp.com](mailto:kanchanah@mitesp.com)  
Phone: +94 (0)77340 2274

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.

Email: [sandnuni.k@uwu.ac.lk](mailto:sandnuni.k@uwu.ac.lk)  
Phone: +94 (0)70 213 0268

I hereby declare that the details and information given above are true to the best of my knowledge.