



# Tarin Ransana Gunarathna

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Birthday: 11<sup>th</sup> July 2005 (Age 20)

## SUMMARY

Final-year Software Engineering undergraduate specializing in mobile application development. Skilled in Android development, RESTful APIs, and object-oriented programming, with experience building user-friendly, high-performance mobile apps. Passionate about problem-solving and innovative software design.

## EDUCATION

### B.Sc. in Software Engineering (Top Up)

Birmingham City University (Java Institute), UK

2024 - Present

### Higher Diploma in Software Engineering

UK Awards (Java Institute)

### Diploma in Software Engineering

UK Awards (Java Institute)

### Advanced Certificate

Elocution of English

### School Education

Highlands College – Nugegoda, Sri Lanka.

Thurstan College – Colombo 07, Sri Lanka.

## SKILLS

- **Languages:** Java | PHP | JavaScript | HTML & CSS | Arduino | C#
- **Technical Fields:** Full Stack Web Development | Android Development | Game Development | Backend Development | IOT
- **Databases:** MySQL | SQLite | Firebase | Hibernate
- **Tools & Services:** Git | Postman | Android Studio | Visual Studio Code | IntelliJ | NetBeans
- **Frameworks:** React Native | React.js

## PROJECTS

### Food – Android App

2025 Jan - 2025 Feb

- Aims to design and develop a **smart food e-commerce mobile app** dedicated to food lovers.
- Enables users to **browse, order, and pay** for their favorite foods seamlessly.
- Includes a **dedicated customer** app for buyers.
- Exclusively launched as a **food-only e-commerce platform**, ensuring a tailored experience for food buyers.
- **Tech Stack:** Java (Android), Firebase, SQLite, Hibernate, MySQL, popular Android UI/UX

### Food Seller – Android App

2025 Jan - 2025 Feb

- Aims to design and develop a **dedicated seller-side mobile app** for food shops and restaurants.
- Enables sellers to **list food items, manage orders, track deliveries, and monitor sales** seamlessly.
- Designed exclusively for **food sellers**, ensuring secure access and business-focused features.

- Features **animated charts** for real-time sales analytics and performance visualization.
- Integrates **Google Maps API** for delivery tracking and location-based order management.
- **Tech Stack:** Java (Android), Firebase, SQLite, Hibernate, MySQL, Google Maps API, charting/analytics

2025 April

### Sandow – Android App

- Aims to design and develop a **fitness and gym mobile app** that motivates users in their workout journey.
- Provides **individual workout guidance** with tailored exercise plans and tracking.
- Integrates **vibration sensor feedback** to give users a real-time responsive feel during workouts.
- Offers a **personalized fitness companion experience**, helping users stay consistent and achieve goals.
- **Tech Stack:** Java (Android), Firebase, SQLite, Android Sensor APIs, modern UI/UX libraries

2024 Nov

### PURE – React Native App

- Aims to design and develop **“PURE” – a modern React Native chat application.**
- Allows users to **add new contacts, send messages, and react to chats** with expressive interactions.
- Focuses on a **clean and intuitive UI/UX**, providing a smooth cross-platform experience on both Android and iOS.
- Integrates **popular React Native libraries** for enhanced performance, animations, and real-time messaging.
- **Tech Stack:** React Native, JavaScript, third-party libraries (React Navigation, Emoji Picker, etc.).

2025 May

### 3D Adventure Game – Knight vs Monster (Unity)

- Designed and developed a **3D action-adventure game** where a knight battles monsters in a jungle environment.
- Integrated **realistic 3D assets, sound effects, and animations** for an immersive gameplay experience.
- Implemented **player combat mechanics**, enemy AI, and health systems using Unity and C#.
- Enhanced gameplay with **environmental effects** (jungle terrain, ambient sounds) and optimized performance.
- **Tech Stack:** Unity, C#, NavMesh, 3D Assets, AudioFX

2025 June

### National Bank – EJB-Based Banking System

- Developed a **secure enterprise-level banking system** with multi-role support (admins & users).
- Implemented **core banking features**: account creation, fund transfers, and user management.
- Utilized **EJB Timer Services** for scheduled fund transfers and applied Interceptors for system-wide logging.
- Enforced **robust security** through **JAAS** and container-managed role-based access control.
- **Tech Stack:** J2EE, EJB, JPA, Jakarta Security, JAAS, MySQL, Hibernate

2025 July

### Luxury Auction – Distributed Online Auction System

- Built a **real-time online auction platform** with distributed J2EE architecture.
- Implemented **user registration, authentication, bidding, and auto-bidding** with **fair bid prioritization**.
- Developed **business logic with EJB** and enabled **real-time bid updates** using **JMS and WebSocket**.
- Managed product and bid data **in-memory** with session beans and **Gson serialization**.
- **Tech Stack:** Java, EJB, JMS, JSP, WebSocket, Gson, HTML, CSS, JavaScript

## REFERENCE

Dr. Darshana Jayasinghe  
 Assist Vice President - Marketing & TLT Member NDB Bank,  
 President of MAA, University of Sri Jayewardepura.  
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