

Orinea Theophylus Tovhakale

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Profile

Driven and detail-oriented Software Engineer with practical experience in full-stack development. Enthusiastic about contributing to innovative solutions while continuously expanding my skills in a collaborative team setting. A fast learner, reliable team player, and creative problem-solver with a passion for building real-world solutions and a commitment to delivering excellence in every project.

Proficient in Python, Java, JavaScript, React, and Next.js, with a strong emphasis on writing clean, maintainable code and following best development practices. Particularly passionate about building scalable, efficient systems that deliver real value.

Education

Tshwane University of Technology

March 2021 – July 2025

Computer Science

Relevant Coursework:

Top Academic Achievement: Object-Oriented Programming

Top Academic Achievement: Advanced Object Oriented Programming

- Object-Oriented programming: Application of OOP principles in Software development using java and Kotlin.
- Advanced Object-Oriented programming: Fundamental principles of OOP Which include, encapsulation, inheritance, polymorphism, and abstraction to create more complex, scalable, and maintainable software with the usage of Java.
- Database Programming : Oracle, SQL, PL/SQL
- Web Development: Full-stack web development with the usage of JEE to develop dynamic web applications by implementing the MVC architecture with Servlets, JSP, and JDBC, As well as the usage of PHP, Bootstrap and Javascript.
- Software Engineering: Agile methodologies, SDLC, And team collaboration software projects.
- Computer Architecture: Optimization of system performance, memory management and hardware organization(Ubuntu, Kali Linux, Assembly).
- Mobile computing: creating Mpbile application with the use of Kotlin.

The Kings School

January 2015 – December

NSC Bachelor's

2020

- Head Boy.
- Matriculated With Bachelors Degree.
- Public speaking and Eisteddfod committee.
- Majored in Mathematics, Physical Sciences and Information Technology.

Experience

Junior Software Developer,

March 2025 - June 2025

TechnoByteSolutions - Student Industry Project

Pretoria, GP

- Developed and maintained Team Sync, a full-stack collaboration web application using React (frontend), Supabase (backend services), and PostgreSQL (database). Implemented real-time data sync, user authentication, and CRUD operations to support seamless team communication and task management.
- Created and designed essential project documentation for the Team Sync system, including Entity Relationship Diagrams (ERDs) to define database structure, Use Case Diagrams to illustrate system interactions, and detailed Use Case Descriptions to outline user behavior and functional requirements. These documents supported both development and communication across the team.

- Developed and integrated a file attachment feature in the Team Sync chat system, enabling team members to upload, preview, and download files directly in conversations. Used Supabase Storage to manage file hosting, associated metadata with messages in PostgreSQL, and ensured secure, real-time file sharing across authenticated users.

Junior Software Engineer,
Student Project

January 2025 – June 2025
Pretoria, GP

- Engineered and deployed a cross-platform job matching mobile application called Job Connect using Expo with TypeScript (TSX) for the frontend, ensuring a responsive and intuitive user experience on both Android and iOS devices.
- Developed scalable RESTful APIs using FastAPI, enabling real-time communication between clients and technicians, while implementing authentication, job listings, and profile management features.
- Designed and managed PostgreSQL database schemas, ensuring efficient data storage and retrieval for users, job categories, applications, and service histories.

Projects

Job-Connect

- Job Connect is a mobile application designed to connect clients with service technicians based on location, service type, and availability. The platform allows users to browse technician profiles, request services, and manage bookings, while technicians can showcase their skills and manage incoming jobs in real-time.
- Tools Used: React(Expo), FastApi, PostgreSQL

TeamSync:

- Team Sync is a full-stack web application designed to help teams collaborate efficiently by providing real-time chat, task management, and file sharing features. It allows users within the same team to communicate, assign tasks, track progress, and upload attachments — all in one streamlined platform.
- Tools Used: React, Supabase and postgresql.

Student class list

- Developed a Student Class List Management System using Java EE, enabling administrators to register students, assign them to classes, and view class rosters. The application was built using JSP for the frontend, Servlets to handle requests, EJBs for business logic, and JPA/JPQL for interacting with a relational database.
- Tools Used: jsp, servlet, ejbs, jpa and jpql

Technologies

Languages / Skills: Python, Java, JavaScript, TypeScript, Kotlin, HTML, CSS, SQL, Assembly, JEE, FastAPI, Flutter

Technologies / Tools: React, Next.js, Angular, Node.js, MongoDB, PostgreSQL, pgAdmin, Firebase, Docker, Postman, GitHub, VS Code, NetBeans, Android Studio, Xcode, JSP, Servlets, EJB, JPA, Microsoft

References

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