

Herve Tusse

Full Stack Software Engineer

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Professional Summary

Experienced Full Stack Developer with over 5 years of expertise in designing and developing scalable web and mobile applications. Proven track record of delivering high-performance solutions using modern technologies including React.js, React Native, Angular, and cloud services. Strong background in cross-platform development, API integration, and database optimization with demonstrated success in both startup and enterprise environments.

Key Strengths: Performance Optimization • Cross-Platform Development • Enterprise Solutions
• API Integration • Team Collaboration

Work Experience

● Software Development Intern

October 2018 - January 2019

The digital Academy, Johannesburg

- Developed innovative chatbot solution to modernize legacy USSD systems
- Built scalable backend architecture using Java with Maven and implemented Firebase functions with TypeScript
- Integrated chatbot with multiple messaging platforms (Telegram, WhatsApp, Messenger) using Node.js
- Delivered functional prototype within tight 3-month deadline through effective team collaboration

Software Development Intern

February 2020 - February 2021

Naskisoft, Pretoria

- Developed comprehensive ERP workflow system using Flowcentric for quotation processing
- Created intuitive user interfaces and connected frontend platforms to SQL Server databases
- Designed complex SQL queries and reports using MS SQL reporting services
- Provided technical support and training for the ALENG Electrical Quotation System
- Reduced tender processing time from one week to same-day completion through automation

Software Engineer

February 2021 - September 2022

Naskisoft, Pretoria

- Developed enterprise web applications for financial institutions, including Equity Bank's data portal processing 1,000+ daily transactions
- Built dynamic user interfaces using Angular 7 integrated with Java/Spring Boot backends
- Designed and optimized SQL databases and stored procedures, improving query performance by 35%
- Implemented secure authentication systems using JWT and Firebase for multi-user applications
- Configured SQL Server Reporting Services (SSRS) for automated report generation
- Managed client relationships ensuring 100% satisfaction rate across all delivered projects

Software Engineer

October 2022 - October 2024

Ganizani, Randburg

- Architected and developed responsive web and mobile applications using React.js and React Native, serving 10,000+ active users
- Implemented performance optimization strategies that improved application load times by 40%
- Collaborated with cross-functional teams to deliver 15+ client projects on time and within budget
- Integrated multiple third-party APIs and services to enable seamless data synchronization
- Established scalable code patterns following SOLID principles and clean code methodologies

Full Stack Software Engineer

November 2024 - Present

XCELLENCE TECH (PTY) LTD, Pretoria

- Currently developing cutting-edge web and mobile applications using modern technology stack
- Leading full-stack development projects with focus on scalable architecture and performance optimization
- Collaborating with clients to deliver custom software solutions meeting specific business requirements
- Implementing best practices in code quality, testing, and deployment processes

Education

High School: Matriculate

January 2015 - November 2015

Dansa International College, Pretoria

Bachelor in Information Technologies

January 2016 - November 2019

Pearson International College, Pretoria

Skills

React.js

React Native

Angular

JavaScript

TypeScript

HTML5

CSS3

Node.js

Spring Boot

Java

Git

AWS (Certified Cloud Practitioner)

Firebase

REST APIs

Scrum

JWT Authentication

Cross-platform Development

Mobile Web Design

Software as a Service (SaaS)

Relational Databases

User Interface Design

3rd Party Integrations

Bootstrap (Framework)

Mobile Application Development

User Experience (UX)

Continuous Integration and Continuous Delivery (CI/CD)

Languages

English

Fluent

French

Native

Projects

● Equity Bank (DRC) Data Portal, Pretoria

January 2021 - January 2022

Developed a web app for remote credit card application processing in Congo, enabling Congolese citizens to apply from abroad and expanding financial service access.

Benefits: The solution enables global access for Congolese credit card applications, removing geographical limits and boosting financial inclusion and user satisfaction.

Technologies: Used Angular 7 for the front-end, Java and Spring Boot for the back-end, MongoDB and MySQL for databases, and implemented JWT and Firebase for security and authentication.

Skills: Implemented JWT and Firebase for security, used MongoDB for data caching, enabled multi-language support, designed efficient databases with MongoDB, MySQL, and SQL SERVER, and developed a user-friendly interface with Angular.

● Equity Bank (DRC) Back Office Portal, Pretoria

January 2021 - January 2022

Developed an ERP solution for Equity Bank to streamline application processing through a client portal, enhancing operational efficiency and productivity.

Benefits: The ERP solution streamlines Equity Bank's application workflow, providing a centralized platform for quicker, more efficient processing and improved client service.

Technologies: Used Flowcentric for ERP core development and seamless integration, and applied VB script and SQL for back-end scripting and database management.

Skills: Demonstrated expertise in SQL database design for efficient data management, coupled with skills in SSRS report design for detailed data analysis and operational transparency.

JOJ Mobile App, Pretoria

October 2022 - December 2023

Created a mobile app available on Play Store and Apple Store for festival-goers, providing up-to-date lineup and schedule information to enhance their experience.

Benefits: The app offers detailed lineup and schedule information, real-time updates, and engaging features like personalized schedules and interactive maps to enhance user experience and satisfaction.

Technologies: Used NativeScript for cross-platform mobile app development and integrated AWS services for scalable cloud infrastructure and backend services.

Skills: Utilized NativeScript for cross-platform development, leveraged AWS for robust backend infrastructure, and prioritized intuitive UI design.

Sponsorship Market Place, Pretoria

October 2022 - April 2023

Developed a Sponsorship Marketplace connecting property owners with sponsors. Owners register properties, sponsors search based on interests, and applications are streamlined, offering flexibility in sponsorship acquisition.

Benefits: Simplifies sponsorship discovery and application for owners and sponsors, with advanced search features for suitable matches. Expands property visibility and offers flexible application options for diverse preferences.

Technologies: Utilized Angular for dynamic front-end development, creating a user-friendly web interface. Leveraged AWS services for a scalable and secure backend infrastructure, ensuring reliability and performance.

Skills: Utilized Angular for web development and AWS for scalable infrastructure. Implemented advanced search and intuitive UI design for enhanced user experience.

Comic Con Africa, Pretoria

April 2023 - September 2023

Developed an event management app in React Native with Firebase for real-time updates. Features dynamic floor plans, notifications, social media integration, and ticketing via Howler API.

Benefits: Enhanced user engagement with interactive features and real-time updates. Streamlined event management with dynamic scheduling and exhibitor listings. Simplified administrative tasks and enabled fast, secure ticketing.

Technologies: Utilized React Native for mobile app development, Firebase for real-time updates, React/Node.js for the admin panel, and Howler API for ticketing.

Skills: Proficient in React Native, Firebase, React, and Node.js. Advanced skills in database management, API integration, and real-time data processing. Created engaging user interfaces.

Rectron Summit App, Pretoria

August 2023 - September 2023

Led rapid development of a comprehensive Summit app within a three-week deadline, delivering a platform for attendees to engage with the event, connect with other participants, access program schedules, and navigate the venue. Managed the entire development lifecycle from concept to app store deployment.

Benefits: Enhanced attendee experience through objective-based engagement and rewards, Facilitated networking with e-business card sharing functionality, Improved event navigation with interactive floorplan, Streamlined communication through notifications and program updates, Provided valuable feedback mechanisms with post-summit survey features

Technologies: React Native for cross-platform mobile development, Firebase for backend services and real-time features Node.js for API development, Custom admin panel using React for content management, App store deployment for both iOS and Android platforms

Skills: Rapid application development under tight deadlines, Project management and team coordination, Cross-platform mobile development, App store submission and publication process, Interactive UI/UX design for event applications

Developed a comprehensive mobile application for Cricut's ambassador program, facilitating onboarding, training, rewards, and engagement for product ambassadors. The platform manages the entire ambassador lifecycle from sign-up through training, store demonstrations, event participation, and reward tracking.

Benefits: Streamlined ambassador onboarding with automated verification and profile setup, Enhanced ambassador skills through integrated training modules and assessments, Optimized store demonstration scheduling with GPS verification and admin approval, Increased engagement through point-based reward system and tiered ambassador levels, Improved communication with targeted push notifications to specific ambassador groups, Facilitated ambassador participation in events with subscription and reminder features, Created seamless integration with partner promotions and content delivery systems

Technologies: React Native for cross-platform mobile development, Node.js and React for comprehensive admin panel, Firebase for authentication, real-time updates, and push notifications, AWS backend services for data management and processing, Integration with Amelia API for workshop scheduling, Geolocation services for store demo verification, Content delivery networks for digital magazine implementation

Skills: Full mobile application lifecycle development, Complex user role management and permissions, Geolocation services implementation, Push notification system development, Point-based reward system architecture, Third-party API integrations, Admin panel development for complete platform management, Content management system implementation

Certifications

AWS Partner: Accreditation (Technical), AWS

AMAZON

August 2022 – August 2022

AWS Certified Cloud Practitioner, AWS

AMAZON

August 2022 – September 2022