

Philip Harteveld

Software Engineer | Fintech & Web3 | React Native & Full-Stack Development

Worcester, Western Cape, South Africa

📞 +27 61 190 1776 | ✉️ philipharteveld3110@gmail.com

🔗 <https://www.linkedin.com/in/philip-harteveld-5937571a4/> | <https://github.com/PhilipHarteveld>

| <https://philipharteveld.com>

Professional Summary

Versatile Software Engineer with 3+ years of hands-on experience building secure, high-performance fintech and Web3 applications. Specializes in React Native and full-stack development, with a focus on clean code, modular architecture, and robust security (OAuth 2.0, 2FA, encryption). Proven ability to solve complex technical challenges, optimize app performance, and contribute to mission-critical systems in agile teams. Passionate about building tools that make life easier for both users and developers.

Key Achievements

- **Boosted app performance:** Optimized React Native mobile app load times by 20%, increasing user retention and engagement.
 - **Streamlined bug reporting:** Developed a GPT-powered Slack bot that cut duplicate bug tickets by 25%.
 - **Data migration success:** Engineered Python ETL scripts to migrate 13M+ transaction records with 99.9% accuracy.
 - **Enhanced security:** Built a React Native card scanning module with encrypted data flow and biometric authentication.
 - **Accelerated dev speed:** Created a reusable UI component library, cutting development time by ~30%.
-

Technical Skills

- **Languages & Frameworks:** React Native, React.js, JavaScript, TypeScript, Node.js, Express.js, Python
 - **Databases & APIs:** PostgreSQL, Supabase, RESTful APIs
 - **State Management:** Redux, Context API
 - **Security:** OAuth 2.0, 2FA, E2EE, Web3 wallet integrations
 - **DevOps & Cloud:** AWS, Azure, Docker, Firebase, CI/CD pipelines
 - **Testing & Monitoring:** Jest, Cypress, Postman, Appium, Sentry
 - **Other Tools:** Git, Agile/Scrum, Jira, Slack Bots
-

Professional Experience

Software Engineer

Zepz – Worcester, South Africa

May 2024 – Present

- Optimized React Native app performance (20% faster load times) using lazy loading, bundle analysis, and profiling tools.
- Built and integrated a secure camera module for card scanning with end-to-end encryption and biometric verification.
- Developed a GPT-powered Slack bot to summarize and auto-tag bug reports, cutting duplicate reports by 25%.
- Created ETL pipelines in Python to migrate 13M+ transaction records, achieving 99.9% data accuracy with rigorous validation.
- Strengthened security by implementing 2FA and OAuth 2.0 login flows and deploying real-time monitoring dashboards.

Junior Software Engineer

Zepz – Worcester, South Africa

Jan 2023 – Apr 2024

- Redesigned onboarding UX flows, boosting user retention by 15%.
- Refactored legacy API integrations, reducing failure rates by 30%.
- Built reusable UI components and internal tools, accelerating developer workflows by ~30%.
- Increased automated test coverage by 40%, improving app reliability across releases.

Junior Software Developer

IMGN Technologies – Worcester, South Africa

Mar 2022 – Jan 2023

- Led a full redesign of the web and mobile UI, improving user engagement and consistency.
- Implemented secure authentication flows (OAuth 2.0, 2FA) for a fintech MVP.
- Refactored legacy code to reduce technical debt and enhance performance.

Software Developer Intern

IMGN Technologies – Worcester, South Africa

Jan 2021 – Dec 2021

- Built modular React.js components to standardize UI across the platform.
 - Fixed 20+ production bugs, improving app stability.
 - Gained foundational experience in AWS/Azure cloud infrastructure and DevOps workflows.
-

Key Projects

Secure React Native Camera Module (Zepz, 2024)

Developed a native iOS/Android card scanning module (AVFoundation & Vision) with 15% faster scan speeds and end-to-end encryption for sensitive data.

AI Bug Tracker (Slack Integration) (Zepz, 2024)

Automated bug triage using GPT-powered Slack bot—summarized reports and reduced developer triage time by 40%.

Fintech Transaction ETL Pipeline (Zepz, 2024)

Built a Python ETL pipeline to migrate 13M+ transaction records between systems, ensuring 99.9% accuracy with strict validation/error handling.

Certifications

- **Microsoft Azure Fundamentals (AZ-900)** – Microsoft, 2023
- **React Front to Back** – Udemy, 2022
- **Web Development Bootcamp** – Udemy, 2020