



Kyluke McDougall

SENIOR FULL STACK APP DEVELOPER

Personal Information

Frankfurt am Main, Germany
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Skills

Full Stack Mobile App
Development (Android, iOS)

Architecture, Modernization,
and Optimization of Software
Solutions using Agile Methods

Cloud Migration, Microservices
Architecture, and CI/CD (AWS,
GCP, Azure)

UI/UX Design and Prototyping
(Figma, Android Studio)

Development with Modern
Technologies and Frameworks
(Kotlin, Swift, Jetpack Compose,
Java, Spring Boot, Python, Go,
Rust, Flutter, C#)

Languages

English

German

Afrikaans

Hobbies

Photography | Traveling | Sport

Profile

Experienced Senior Full Stack App Developer. Competent in delivering innovative, high-quality software solutions.

Extensive experience in using modern technologies and frameworks to create user-friendly and powerful mobile applications. Strong problem-solving skills and a high level of commitment.

Excellent team skills and extensive experience working with various departments and areas. Passionate about developing innovative solutions that enhance the user experience.

Work Experience

Senior Full Stack Developer | DB System

FEBRUAR 2025 — JETZT

Development of Android applications and Java/Kotlin backends for DB Cargo and DB Fernverkehr as a freelance developer. Implementation of scalable solutions for Deutsche Bahn's mobile applications and backend systems. Focus on robust architecture, security, and user experience.

- **Domain:** Transportation, Logistics, Mobility Solutions
- **Methoden:** Agile Development, CI/CD, DevOps, Microservices Architecture
- **Tech Stack:** Android SDK, Java, Kotlin, SOAP, REST APIs, Docker, Kubernetes, CI/CD Pipelines, Mend, Compliance Tools, Docker Image Security

Senior Android Developer at TUI

AUGUST 2024 — NOVEMBER 2024

Mein Schiff | Senior Android App Developer

As a Senior Android App Developer for the "Mein Schiff" app, I was responsible for further development, modernization, and the integration of WebViews to incorporate native web app functionalities. Additionally, I fixed bugs and conducted extensive testing to ensure high software quality.

- **Domain:** Travel industry, cruise ships
- **Methods:** Agile development
- **Website:** meinschiff.com
- **Tech Stack:** Android, Kotlin, Java, RxJava, Figma, UI Design, Android Studio, CI/CD pipelines, Git, GitHub, GitHub Actions, Testing, Retrofit, WebViews, and Room

Software Architect and Developer for a peer-to-peer trading platform (NDA)

JUNI 2022 — JUNI 2024

Developed the architecture and led the creation of a scalable peer-to-peer trading platform. Led decisions regarding technology to use in mobile and backend implementations. Project details are confidential due to an NDA.

- **Domain:** Peer-to-Peer-Trading Platform
- **Methods:** Agile Development, CI/CD, NDA-compliant Development
- **Tech Stack:** Flutter, Go, Rust. Microservices auf AWS EC2 und AWS RDS Deployed, Android Studio, UI, UI Design, Figma, Testing

Senior Software Developer at MaibornWolff GmbH, Frankfurt am Main

AUGUST 2020 — APRIL 2024

Rolls Royce Motorcars | [Full Stack Mobile App Developer](#)

Overhaul and modernization of the Whispers app and backend to ensure a top-class luxury experience on Android and iOS platforms. Enhanced app analytics using AWS technologies to provide clear insights to key stakeholders. Gradual migration of microservices between AWS instances without disruptions.

- **Domain:** Luxury automotive industry
- **Methods:** Agile development, Cloud migration, Microservices architecture, CI/CD
- **Website:** www.rolls-roycemotorcars.com/en_GB/ownership/whispers.html
- **Tech Stack:** Kotlin, Swift, Jetpack Compose, Java, Springboot, Python, Kubernetes, Docker, AWS, AWS RDS, AWS EKS, AWS S3, AWS Glue, Git, Gitlab, Github, Jira, Confluence, Figma, UI Design, Android Studio, Testing, Retrofit, RxJava, Room, MQTT

Stihl | [Android Developer](#)

Development of an Android app for IoT-enabled lawnmowers, including real-time interaction and remote-control capabilities. Initiation and leadership of 'Tech Talk' meetings to promote technical strategies and team cohesion.

- **Domain:** Agricultural equipment
- **Methods:** Agile Development, IoT Integration, Cloud Backend, Microservices Architecture, CI/CD
- **Website:** stihl.de
- **Tech Stack:** Kotlin, Android, Bluetooth, AWS Lambda backend. Azure, Figma, UI Design, Android Studio, Pipelines, Git, Azure Git, Testing, Retrofit, RxJava, Room

IoT Bike | [Senior Full Stack Developer](#)

Contributed to the IoT Bike Project, a cutting-edge research initiative that uses smartphone sensors to improve urban cycling infrastructure. Developed backend solutions with Go and Python and supported frontend development with Swift and Flutter to enable data-driven improvements of bike path quality through crowdsourcing.

- **Domain:** Urban Infrastructure
- **Methods:** Crowdsourcing, Cloud Deployment, CI/CD
- **Website:** www.maibornwolff.de/innovation/iot-bike-bessere-radwege-dank-app-date-n/
- **Tech Stack:** Go, Python, Flutter, Swift. Auf Microsoft Azure with Kubernetes deployed using Terraform. Gitlab, Jira, Azure Pipelines, Kubernetes, Figma, UI Design, Android Studio, Room, Testing with Mockito

Strabag | [Backend-Java-Developer](#)

Architected and implemented a framework to integrate internal systems with external cloud services to optimize data operations across the company.

- **Domain:** Construction industry
- **Methods:** Microservices-Architecture, CI/CD
- **Website:** www.strabag.com
- **Tech Stack:** Java, Springboot, Git, Testing, AWS EKS Backend

Software Architect and Developer for Fintech Application (NDA)

JUNI 2022 — JUNI 2024

Worked closely with a client to develop a fintech mobile app for their users. I was tasked with the software architecture design and the implementation of the mobile app and backend.

- Domain: Fintech Platform
- Methods: Agile Development, CI/CD, NDA-compliant Development
- Tech Stack: Flutter, Go, Rust. Microservices auf AWS EC2 und AWS RDS Deployed, Android Studio, UI, UI Design, Figma, Testing

Backend Python Developer at Takealot.co.za, Cape Town

OKTOBER 2019 — JUNI 2020

Improved the checkout and wishlist features of Africa's largest online retailer by using Kubernetes and GCP to enhance backend efficiency, resulting in better customer satisfaction and website performance. Migrated the backend from Python 2 to Python 3 and moved from on-premise servers to the cloud without any downtime.

- Domain: E-Commerce
- Methods: Cloud Migration, Version Upgrade, Agile Development, CI/CD
- Website: www.takealot.com
- Tech Stack: Python 2/3, Kubernetes, Docker, MySQL, GCP. Git, Github, Testing

Internal App for Managing a B2C App (NDA)

MAI 2017 — DECEMBER 2024

Development of a comprehensive management app for a B2C company to optimize daily operations. This app allows managers and product owners to easily navigate and control essential aspects of their customer-facing app. It also provides valuable analytics and enables product owners to respond directly to customer inquiries. Originally developed in Xamarin, the app has now been redesigned with Flutter for cross-platform availability. The backend is powered by Rust and deployed on AWS.

- Domain: Software solutions
- Methods: Agile Development, Cloud Migration
- Tech Stack: Flutter, Rust, C#, AWS, AWS RDS, AWS EC2, Docker, Git, Gitlab, Android Studio, Testing, Figma, UI Design

Lead Full Stack Developer at Surer, South Africa

MAI 2016 — AUGUST 2019

Led the development and deployment of cross-platform mobile applications using Xamarin and Flutter to enhance service offerings for various clients and utilize a broad technology stack including Bitcoin, Go, Python, C#, Rust, and MySQL.

Designed, built, and maintained microservice backends in Go and managed the server infrastructure.

- Domain: Media & IT-Service Industry
- Methods: Agile Development, Microservices, CI/CD
- Tech Stack: Go, Python, C#, MySQL, Rust, MySQL. All backends deployed on AWS, MySQL databases on AWS RDS. Microservices deployed on AWS EC2. Android Studio, Testing, Figma, UI Design

Solutions Architect at Orbis Software SA (Pty) Ltd, South Africa

JANUAR 2014 — APRIL 2016

Architected and implemented automated solutions that increased customer efficiency and productivity, as well as improved the effectiveness of the sales team in closing deals and boosting revenue.

Utilized TaskCentre, MS SQL Server, and Microsoft Server to develop tailored solutions for unique customer requirements. Led technical teams to ensure project success and promoted the adoption of new technologies for a competitive edge.

- Domain: IT-Solutions
- Method: Process optimization, Cloud Migration
- Website: www.codelessplatforms.com
- Tech Stack: TaskCentre, MSSQL, carried out migration of customer on-premise applications to AWS and Azure.

Additional Projects

Contacts and Event-Manager App, South Africa

JANUAR 2017 — HEUTE

Developed the backend for a contact and event management system for an organization, using Rust to handle data such as contact details, key dates, and comprehensive event logistics. The system enables management to plan events, manage attendance, and create user-friendly summaries to inform end-users about upcoming events.

- Domain: Event management
- Methods: Data management, backend development
- Tech Stack: Rust, Testing

Finance App for Automated Income and Expense Tracking

JANUAR 2023 — HEUTE

Developed a finance app that automatically syncs with bank accounts to categorize transactions. Implemented analysis tools, including graphical representations, to visualize income and expense trends over time. Built with Flutter and Go to provide a seamless and interactive user experience.

- Domain: Fintech
- Methods: Agile Development, FinTech-Integration, Mobile Development
- Tech Stack: Flutter, Rust, Github, Github Actions, Android Studio, Testing

Coffee Circle

JANUAR 2023 — DEZEMBER 2023

Created an app that brings employees at a large IT service provider together for coffee meetings. This app promotes stronger team connections in remote teams and large organizations, supports collaboration, and provides insights into the daily operations of various departments across multiple locations. The matching algorithm and backend were developed in Rust and deployed on Azure with Kubernetes.

Education

Electrical Engineering, Cape Peninsula University of Technology (CPUT), Cape Town

JANUAR 2011 — DEZEMBER 2014

Studied Electrical Engineering with a focus on computer systems and electronics at the University of Cape Town, South Africa. Gained comprehensive knowledge and practical experience through the successful completion of 7 semesters.

Excerpt of References

Arnold Schlegel, Senior Lead IT Architect at MainbornWolff

In our collaboration, Kyluke has shone through with high professionalism, excellent teamwork, quick adaptability, and technical competence. Even in stressful situations, he always ensured a positive atmosphere within the team.

Maximilian Fabry, Senior Lead IT Consultant at MainbornWolff

I had the pleasure of working with Kyluke for two years on a multi-platform (iOS, Android, BE on AWS) and multi-team product development initiative.

He impressed me with his extensive experience with various technologies, his vast experience in team management and product development methodology, and his great sense of responsibility and initiative (and humour). 11/10 would hire him again!

Timothy Higgs, Project Manager TUIC

Kyluke and I were on a development team together for much of late 2024; he as a Senior Android Developer and me as the team's project lead.

The first thing I noticed about Kyluke was how easy it is to communicate with him in any medium. He's quick with messaging back, he writes carefully and concisely in emails and in Jira tickets, listens well in meetings and adds well thought-out feedback and information when relevant. This made my job as PM significantly easier when asking him for his expertise.

Another big asset of his is his breadth of experience in coding languages and stacks. There were multiple examples where he was able to provide guidance on a topic that was unrelated to Android development, which helped us gain perspective and, quite possibly, avoid a few pitfalls he'd learned about through previous project experience. I can't tell you how valuable that is to a PM, when you have a developer thinking further down the line.

Lastly, Kyluke maintains a high standard of code quality, which other developers confirmed was top notch. He is reliable, smart, fun to work with and is a great teammate for keeping things light but professional.

I sincerely hope to work with him again sometime in the future and would whole-heartedly recommend him.