Pierre Marais

pierremarais.de | pierremarais67@gmail.com

EDUCATION

NORTH-WEST UNIVERSITY
B.Hons Computer Science
2014 | South Africa
Grade: Cum Laude

NORTH-WEST UNIVERSITY
B.Sc Information Technology
2011 - 2013 | South Africa
Grade: Cum Laude
Received an award for achieving the highest overall academic score during the three year B.Sc degree

LINKS

- LinkedIn
- Github

SKILLS

PROGRAMMING
Kotlin • Typescript • Scala • Kafka
PostgreSQL • React • Docker
Kubernetes

LANGUAGES
English (Native)
German (C1)
Afrikaans (Native)

COURSEWORK

POSTGRADUATE
Databases
Linear Programming
Data Warehouses
Decision Support Systems
Information Systems Engineering

UNDERGRADUATE
Data Structures
Algorithms
Programming (Java & C#)
Databases
Systems Analysis and Design
Discrete Mathematics
Operating Systems
Decision Support Systems
Business Management
Statistical Inference
Descriptive Statistics
Financial Accounting
Expert Systems

EXPERIENCE

FREELANCE SOFTWARE ENGINEER
www.pierremarais.de
Jun 2024 - Present | Berlin, Germany

Experienced software engineer with expertise in building scalable, event-driven microservices and AI-powered applications. Proficient in developing solutions using a diverse tech stack. Strong background in leading new technical projects, mentoring engineers, and maintaining and improving legacy systems.

Tech stack: Kotlin, Typescript, Ktor, NextJS, Docker

TRESOR AI | Co-founder
www.tresor-ai.com
Jun 2023 - May 2024 | Berlin, Germany

Tresor AI provided companies with GDPR-compliant chatbots powered by open-source LLM models combined with Retrieval Augmented Generation (RAG), enabling them to deploy intelligent agents that execute tasks based on internal documentation.

Tech stack: Typescript, Kotlin, Python, Llama-Index, NextJS, Qdrant, FastAPI, Docker

ZALANDO | Senior Software Engineer
Jun 2018 - Feb 2023 | Berlin, Germany

- Enabled warehouses to process several million items every day by developing an in-house Warehouse Management System for key processes such as tour processing, pitch management, receiving, sorting, stowing, outbound handling, returns, and refurbishment.
- Enabled scaling from 8 warehouses to 30+ within a couple of years by implementing the strangler pattern to migrate the existing Warehouse Management System from a monolith hosted on-premises to an event-driven microservice architecture.
- Led numerous technical process improvement projects resulting in millions of euros in annual savings.
- Provided mentorship to several engineers to support their professional development.
- Supported in the hiring process by conducting technical and coding interviews.

Tech stack: Kotlin, Ktor, Kafka, Typescript, Scala, React, PostgreSQL, Kubernetes

INVESCO | Software Engineer
Jun 2016 - May 2018 | Johannesburg, South Africa

Developed Robo-advisor solutions to registered investment advisors and broker-dealers.

Tech stack: Scala, Akka, MongoDB, Docker

K2 | Software Engineer
Jan 2015 - May 2016 | Johannesburg, South Africa

GAMINGVPN | Founder
Feb 2013 - Jul 2015 | Potchefstroom, South Africa