

Pierre Marais

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 • Kafka • Scala • Typescript

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

TRESOR AI | CO-FOUNDER

www.tresor-ai.com

Jun 2023 - Present | Berlin, Germany

Developed a GDPR-compliant Large Language Model product, combined with Retrieval Augmented Generation, enabling companies to intelligently query internal documentation.

Tech stack: Python, Typescript, NextJS, Qdrant, FastAPI, Docker, Ansible

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, Kafka, Scala, React, Typescript, PostgreSQL, Kubernetes, Docker

INVESCO | SOFTWARE ENGINEER

Jun 2016 - May 2018 | Johannesburg, South Africa

- Developed a risk scoring system to build a risk profile for clients looking to invest using a robo-advisor
- Created brokerage accounts for customers and executed trades on their behalf.
- Integrated with DocuSign, enabling customers to digitally sign contracts.

Tech stack: Scala, Akka, MongoDB, Docker

K2 | SOFTWARE ENGINEER

Jan 2015 - May 2016 | Johannesburg, South Africa

- Reduced build times by 80% by creating a dependency graph of a monolithic project containing 1000+ sub projects. This enabled compiling projects in parallel, drastically reducing build speeds.

GAMINGVPN | FOUNDER

Feb 2013 - Jul 2015 | Potchefstroom, South Africa

GamingVPN provided VPN solutions, mainly used by university students, enabling unrestricted internet access on campus computer networks.