Marc de Klerk

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Accountable, innovative and broadly experienced Software Engineer with 12+ years in high-performing teams and 1 year as an independent consultant.

Adept at exploring new technologies, solutions engineering, troubleshooting, teamwork, and software development. Effective on-site in international offices & remote.

WORK EXPERIENCE

Various Clients — Local businesses (3)
Jun 2021 — Jun 2022

Software Engineer

- **General consultation.** Remodelled business ERD for reduced complexity and cleaner extension. Provided basic training on secret management & secure deployments.
- **Process improvement**. Developed business process automation tooling e.g. PDF generators, email parsers. Fostered DevOps environment & improved DevXP.
- **Led development**. Worked on-site with SMEs and client team to develop new client information system and modern API for legacy government service (reverse-engineered). Managed support staff adoption.

Adhara — Distributed financial infrastructure and products
Aug 2018 — Jun 2021

Platform Engineer

- **Developed infrastructure**. Remote 3 team service 15 core- & application engineers. Developed Kubernetes platforms for multiple projects on AWS & Azure. Evaluated new technologies & IaC management strategies. Maintained CI/CD pipelines. Setup performance tests. Upgraded components. Tweaked code quality- & observability metric thresholds. Implemented ISO-27001 security measures.
- **Responsible for operation**. During on-call weeks. Monitored dashboards & alerts. Acted first-responder, driving incident response. Presented weekly status updates.
- **Engineer for engineers.** Encouraged and supported engineers in adopting DevOps practices. Setup knowledge portal, wrote guides and presented knowledge sharing sessions. Provided internal & external support.
- **Contributed to team high performance**. Contributed to work planning and improving team. Initiated study group and developed working knowledge of blockchains, HSMs & elliptic curve cryptography.

Senior Software Engineer

- **Fullstack development**. Collaborated on design and development of distributed applications from zero to one. Developed features, flow diagrams, architecture diagrams, libraries, tooling, mock servers, end-to-end tests.
- **Project management.** Organized project knowledge on Jira & Google Drive. Coordinated API design with internal engineering team, external agency & project client.
- **Delivered POC.** Deeply debugged, securely built & deployed core stack on unconventional s390x architecture on IBM HyperProtect. Delivered on time with regular stakeholder meetings (IBM).

<div align="center">**ConsenSys — Ethereum venture producer**</div>
<div align="center">Oct 2017 — Jul 2018</div>

Software Engineer
- **Early engineer**. Formed part of the payments team which became Adhara. (details above)
- **Provided training abroad.** In the Philippines (UnionBank) and Nigeria & Kenya (Meetups).

<div align="center">**LifeQ — Personalized health monitoring ecosystem**</div>
<div align="center">Jul 2013 — Sep 2016</div>

Software Engineer
- **Developed GPU accelerated simulation software.** Developed simulation software for improved PPG signal in wearable heart-rate monitors. Developed prototype C codebase into packaged application with real-time ray-tracing engine.
- **Developed tooling.** Cross-functional role to develop GUI & CLI tools for hardware engineers to control and debug hardware devices in Python.

MIH Media Lab — Postgrad lab   Jan 2011 — Dec 2012
Business Systems Group — Corporate software services   Jan 2010 — Dec 2010

<div align="center">**EDUCATION & BACKGROUND**</div>

University of Stellenbosch
- BSc (Hons) Computer Science and Applied Math

Languages
- English and Afrikaans

Nationality: South African
Date of Birth: 20 July 1987

<div align="center">**WORK AUTHORIZATION**</div>

Seeking US or Europe relocation. EB-3 or H-1B visa sponsorship required for US work authorization (process & costs on request). US travel granted until 2028. Fully setup for remote work from South Africa. Relocation support not required.

Additional Keywords:
- AWS, Azure, DigitalOcean, IBM HyperProtect, Kubernetes, Docker Terraform, Helm, Ansible
- ElasticSearch, LogStash, Kibana, Prometheus, Grafana, CircleCI, Github Actions, FluxCD, Atlantis, SonarCloud
- Go, Python, Java, NodeJS, ActiveMQ, MongoDB, PostgreSQL
- PlantUML, JMeter, Postman, Wireshark, Postman