ANDREW GOTORA

Fullstack Software Engineer & Cloud Platform Architect

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PROFESSIONAL SUMMARY

Technology-focused Fullstack Developer and Cloud Platform Architect with extensive experience in designing, developing, and deploying scalable, secure cloud-based solutions. Proven track record in building enterprise-grade microservices architectures handling 10M+ requests per day with 99.99% uptime SLA. Expert in multi-cloud strategies (Azure, AWS), containerization (Docker, Kubernetes), and modern DevOps practices. Supportive and enthusiastic team player dedicated to continuous improvement and efficiently resolving complex technical challenges.

CORE COMPETENCIES

Cloud & Platform Services

- **Azure:** Functions, App Services, Automation, DevOps, Monitor, Application Insights
- **AWS:** EC2, Lambda, RDS, S3, CloudFormation
- **SAP:** Business Technology Platform, UI5, Fiori, HANA, CAP Model
- **Multi-cloud Architecture:** Hybrid deployments, disaster recovery, cost optimization

DevOps & Infrastructure

- **Infrastructure as Code:** Terraform, Azure Bicep, CloudFormation
- **CI/CD:** Azure DevOps, GitHub Actions, Jenkins, SAP CI/CD
- **Containerization:** Docker, Kubernetes, Portainer, Container Networking
- **Version Control:** Git, GitHub, GitLab, TortoiseGit

Programming & Development

- **Backend:** C# (.NET Core), Python (Django, Flask, FastAPI), Node.js
- **Frontend:** React, TypeScript, JavaScript, HTML5, CSS, SAP UI5
- **API Design:** REST, OData, GraphQL, Event-Driven Architecture
- **Databases:** PostgreSQL, MSSQL, MongoDB, MySQL, HANA, Redis

Architecture & Methodologies

- **Patterns:** Microservices, Serverless, MVC, MVVM, Domain-Driven Design
- **Principles:** SOLID, Object-Oriented Programming, Test-Driven Development
- **Methodologies:** Agile (Scrum), Jira, Azure Boards, Redmine
- **Security:** Zero Trust Architecture, OAuth 2.0, RBAC

Monitoring & Operations

- **Observability:** Azure Monitor, Application Insights, ELK Stack, Prometheus, Grafana
- **Messaging:** Apache Kafka, Azure Service Bus, Message Queues
- **IoT:** Thingworx, Node-RED, Edge Computing

PROFESSIONAL EXPERIENCE

SAP Developer

Boehringer Ingelheim | Afrika-Kommt Fellow | 2022 - Present

- Develop enterprise SAP UI5 applications using Business Application Studio and VSCode
- Build and deploy applications using Node.js, HTML, and XML on SAP Business Technology Platform
- Provision, monitor, and deploy applications using OpenStack in private cloud environment
- Develop SAP applications consuming OData (REST API) services using OData models
- Implement CAP development model with cloud-based database technologies (SAP HANA, PostgreSQL)
- Execute software development testing, test automation, and CI/CD pipelines

IoT Solution Architect & Developer

Product One | 2021

- Investigated problem statements and business use cases for enterprise clients including Exxaro Mines
- Gathered client requirements and defined software specifications for IoT solutions
- Designed and developed IoT solutions using AWS, Azure, and Thingworx platforms
- Established streamlined DevOps processes resulting in frequent, seamless software updates
- Developed .NET and C++ Edge SDKs for various edge devices
- Provided platform support and client training

Software Product Engineer

Hensoldt South Africa | 2020

- Prepared documentation of software designs, features, functions, and products
- Investigated, designed, and implemented scalable .NET applications for spectrum monitoring and analysis
- Collaborated with IT team members to plan, design, and develop smart solutions

- Interfaced with business analysts, developers, and technical support for optimal specifications

Software Developer

Thyssenkrupp Industrial Solutions South Africa | 2018 - 2019

- Developed desktop and web-based applications for feasibility studies on liquid fuel storage facilities
- **Reduced feasibility study time from 6 months to a few days, cutting costs by 40%**
- Led development of desktop applications using WinForms and WPF in C#
- Implemented MVVM architecture using MVVM Light Toolkit and PRISM libraries
- Developed web applications using ASP.NET, JavaScript, Kubernetes, Docker, and Python (Django, Flask)
- Applied Object-Oriented Programming principles and agile methodologies

Electrical/Electronics Engineer

Ansaldo STS - Gear Rail SA | 2014 - 2017

- Developed WinForms and WPF desktop applications for Factory Acceptance Testing
- Gained expertise in C/C++ embedded systems programming for locomotive systems
- Programmed PLCs for Allan Bradley, Microlok, and Siemens systems
- Generated and compiled electronic interlocking code using C, C++, and SpoorText
- Performed Factory Acceptance Testing (FAT), FMECA analysis, and Site Acceptance Testing (SAT)
- Conducted financial and technical feasibility studies for Engineering IT projects

EDUCATION

Part-time MBA

Reutlingen University ESB Business School | 2022 - Present

Bachelor of Electronic and Electrical Engineering Science

University of Johannesburg | 2011 - 2015

CERTIFICATIONS & TRAINING

Year	Certification	Provider
2022	SAP UI5 (UX400), SAP BTP, SAP Fiori (UX100)	SAP
2022	Mendix Rapid Developer	Mendix
2021	Thingworx Solutions Architect	PTC Academy
2019	Digital Transformation	BCG & University of Virginia
2019	Innovation Management	Erasmus University Rotterdam
2019	Software Development Life Cycle	University of Minnesota
2019	Software Processes and Agile Practices	University of Alberta
2019	Data Processing with Python	Nanjing University
2019	Machine Learning	Stanford University

KEY ACHIEVEMENTS

- Architected systems handling **10M+ requests per day** with sub-100ms latency
- Achieved **99.99% uptime SLA** across multi-cloud deployments
- Delivered **35% infrastructure cost reduction** through cloud-native optimization

- Reduced feasibility study time from **6 months to days**, cutting costs by **40%**
- Built microservices platforms with **7 bounded contexts** using domain-driven design

REFERENCES

Available upon request.