DEVIN AZZIE

Data Engineer

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ABOUT ME

I am a mechanical engineering graduate with a passion for technology and simple, elegant solutions. I enjoy being challenged and mentally stimulated through my interaction with people who have developed skills in the areas that I am interested in. I thrive in a team environment and am always keen to learn as much as I can.

EDUCATION

University of the Witwatersrand
2014 – 2018
BSc Mechanical Engineering

De La Salle Holy Cross College
2009 – 2013
NSC Bachelor's Degree

For Matric certificates and Academic Transcripts, please visit my webpage and look under the education section

INTERESTS AND HOBBIES

- Playing Guitar
- Formula 1
- Engineering
- Technology
- Automation
- Video Games

WORK EXPERIENCE

Data Engineer
Dimension Data
August 2020 – Present

I am currently working as a Data Engineer in the Applications and Data Services area of Dimension Data. I currently work as part of team tasked with building a Business Intelligence Solution for client in the Data Center industry. The project is designing, developing and deploying the solution to provide end users within the business access to data from their multiple ERP and data collection systems in order to understand better how the business is operating. My role in this project has been to develop a CICD process for the end-to-end Solution including Azure Data Factory, Azure Analysis Services, Azure SQL Database, and Microsoft Power BI Reports.

Other activities performed include developing a parameterised data model processing pipeline in Azure Data Factory to trigger and monitor model processing on Azure Analysis services as well as automated email alerting for the pipelines using Azure Logic Apps.

I have been exposed to large scale data warehousing and data modelling and will be taking a more active role in developing of future data models on this project as it progresses to the next stage.

I also have experience providing BI Managed Services for this project as well as for a different BI solution for a client in the Logistics Industry.

NTT Secure Coding Intern
Dimension Data Security/ NTT and Britehouse
June 2019 – July 2020

During my time with Dimension Data Security, and later on Britehouse, I was exposed to a wide range of different projects and experiences. I was part of an intern team which created a Cybersecurity Control learning tool called Dimension Data Dash. I participated in Dimension Data's Hackfest 2019.1 and was part of the Dimension Data Glance team which went on to be one of the winning products of the event. After joining Britehouse on rotation I worked along-side the team of Britehouse Graduates to design and build an application to perform analytics on Timesheet and Project Finance data extracted out of the business's SAP S4 Hana ERP system with the aim of improving timesheet capturing behaviour as well as project finance management. My main responsibility on this project was to design and build the Azure Data Factory and ETL processes for the data extraction from source as well as manage the Source code and Repositories for the various pieces of the application.

KEY SKILLS

Technical skills:

- Microsoft Azure
  - Azure Data Factory
  - Azure Logic Apps
  - Azure Analysis Services
  - Azure DevOps Pipelines
  - Azure DevOps Repositories
  - Azure SQL Database
  - Azure Key Vault
- Microsoft Power BI
- SQL and T-SQL
- DAX (Data Analysis Expressions)
- Windows Powershell
- Python
- Basic Django knowledge
- HTML, CSS, and Bootstrap 4
- MATLAB
- Simulink
- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- Experienced with Autodesk Inventor design software and can generate engineering drawings
- Basic Computational Fluid Dynamics (CFD) knowledge
- Basic ANSYS Finite element Analysis knowledge

Non-technical skills:

- Problem-solving
- Good presentation skills and am a natural-sounding speaker
- Basic product development skills
- Knowledge of SCRUM and agile methodology practices
- Easily adaptable to changing environments
- Work well as part of a team as well as alone
- Good at breaking large problems down into smaller workable pieces

References:

- **Martin Verwey (Mentor and Project Lead)**:
  martin.verwey@dimensiondata.com
- **Arno Venter (Mentor)**:
  arno.venter@dimensiondata.com

Technical Support Intern
J2 Software
February 2019 – May 2019
For three months in 2019 I operated the support desk at J2 Software which is a small Cybersecurity focused company. I gained a basic understanding of what cybersecurity is and was exposed to many different types of security challenges ta small businesses face. As a result, I gained experience in client interaction and support, I learned how to use the Mimecast Admin portal to perform various tasks related to email security. I had to troubleshoot a lot of technical issues that clients were experiencing and helped prevent some phishing email attacks.

Vacation Work Student
Opti-Num Solutions
2016–2017
I was accepted into an 8-week vacation work program where we were tasked with designing and building an IOT controlled Water level controller system to maintain water levels in a mini reservoir. As a mechanical engineering student, working in pairs we designed an automatic water level control system using MATLAB products to design the water level controller and low-cost hardware to implement it. The entire system was first modeled and simulated using Simulink from MATLAB and then the controller was deployed to the low-cost hardware for real-life testing and demonstration.

CERTIFICATIONS

- Microsoft Azure Fundamentals AZ-900 Certified
- Microsoft Azure AI Fundamentals AI-900 Certified
- Cisco Firejumper Academy Network Security Cybersecurity Systems Engineer Stage 1 and Stage 2 in the following areas: Advanced Threat Cybersecurity, Cloud Web and Email Cybersecurity, Enforcement and Visibility, and Network Security
- Palo Alto Networks Accredited Sales Executive (ASE)
- McAfee MVision Cloud sales enablement
- HIPAA Compliant
- GDPR Compliant

TRAINING

- Microsoft Azure eLearning courses: Design for security in Azure, Secure your Azure Storage account, Authenticate browser-based apps with Azure App Services, Secure your Azure resources with role-based access control, Secure your Azure SQL Database.
- Amazon Web Services Cloud Practitioner and Security Fundamentals
- Whitehat Certified Secure Developer Online Training
- CompTIA Security+ Cybrary Course
- SCRUM Training chaired by Nathan Van Den Berg and Ilzé van As (Britehouse)
- Pluralsight Online courses:
  - Python: Getting Started
  - Python Fundamentals
  - Django: Getting Started
  - HTML, CSS, and JavaScript: The Big Picture
  - Introduction to CSS
  - JavaScript: Getting Started
- TalkPython - Learn to Code 2019: Python Jumpstart by Building 10 Apps