Omphemetse Senna

Graduate Development Programme

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Open to Relocate

◇ LinkedIn ◇ Portfolio ◇ GitHub

SUMMARY

Highly motivated and detail-oriented student with a Bachelor of Science in Computer Science (Hons) and nearly 12 months of hands-on experience in internal audit. Proficient in programming languages including Python, Java, and C#, as well as data science tools such as Python libraries, SQL, and machine learning. Strong problem-solving skills and a passion for software engineering, data science, quantitative analytics, and data engineering. I am seeking the opportunity to join the organization where I can leverage my technical skills to drive business insights and contribute to the company's innovative data-driven initiatives.

EXPERIENCE

IT Internal Audit Intern Jul 2023 — Present
FirstRand Bank Limited Sandton, South Africa

Responsibility and Duties:

- Conducted Conducted thorough evaluations of IT payment systems and products, identifying vulnerabilities, and assessing findings.
- Maintained readiness to support disaster recovery efforts by remaining vigilant and staying abreast of IT payments system functionalities, poised to assist in prompt resolution processes during any potential malfunctions or breaches.
- Applied data analytics expertise to evaluate backend systems, ensuring database integrity and optimal configuration.
- Worked closely with auditors to assess discoveries and gain a deeper understanding of the bank's products and transaction processes.

Contract end: 30 June 2024.

EDUCATION

Bachelor of Science with Honors in Computer Sciences, University of Pretoria
Jan 2024 — Present
Pretoria, South Africa

Elective Modules and Research:

Artificial intelligence, data mining, software engineering, and computer security.

Bachelor of Science in Information Technology, North-West University
Jan 2019 — Dec 2022
Vanderbijlpark, South Africa

Core Modules:

Databases, Object-Oriented Programming (JAVA), System Analytics and Design, Artificial Intelligence, Data Structures and Algorithms (JAVA), Data Analytics, Discrete Mathematics, Computer Networks, Operating Systems, Decision Support Systems, Apps, and User Interface Programming.

SKILLS

Programming Languages: C#, C++, Java, Python, and SQL.

Web Development: HTML 5, CSS 3, ASP.NET, JavaScript, Node.js, Express.

Version Control: Git and GitHub.

Data Science and Machine Learning: NumPy, Pandas, Scikit-learn, TensorFlow, Seaborn, Matplotlib, Unsupervised Learning, Supervised Learning, and Power BI.

Database Management: SQL Server, Oracle, MongoDB, and Azure Cloud Services.

Computer literacy: Microsoft Word, Excel, PowerPoint, Research Methodology, Teams, and Outlook.
Soft Skills: Problem-solving, time management, analytical thinking, interpersonal communication, critical thinking, and creative thinking.

Languages: English, Sesotho, Setswana, and Sepedi

CERTIFICATIONS/ TRAININGS

Coding Summer School 2023 Mar 2023
CHPC-NITHECS and CSIR

Data Cleaning Nov 2023
Kaggle [Online]

Machine Learning A - Z Python and R Nov 2023
Udemy [Online]

PERSONAL ROJECTS

SALES PREDICTION, Link Feb 2024

- Developed a robust codebase for a data science project that revolves around utilizing modelling methods to predict sales patterns and optimize business strategies.
- By analyzing sales data and external influences impacting sales outcomes, the primary objective of this project is to provide insights for enhancing revenue streams and refining decision-making processes.

SOUTH AFRICAN IDENTITY IDENTIFIER, Link Apr 2023

- Developed a Java object-oriented programming (OOP) script for processing a text document that includes names and corresponding ID numbers.
- The script efficiently calculates age while also extracting essential information, such as gender and citizenship status, based on the provided data.
- Following this, the script creates a structured text file where all the extracted information is stored in a format that resembles a comprehensive report.

ACHIEVEMENT/VOLUNTEER INVOLVEMENT

Back-End Engineering Virtual Experience Program. [Forage] Mar 2023

- Developed the Unified Modelling Language (UML), followed by a refactoring coding phase and unit testing.
- UML was utilized to create a visual representation of the system's architecture, enabling efficient communication, and guiding the development process.
- The subsequent refactoring phase aimed at enhancing the code structure and design, while rigorous unit testing was conducted to ensure the system's reliability and functionality.

Project Experience: New Application Implementation [FirstRand] Nov 2023

- I assisted in the transition to a new system at FirstRand Bank Limited, introducing a new application that streamlined employee processes and improved overall efficiency. This experience has given me a strong understanding of the importance of effective communication and change management in technology implementation.

REFERENCES

Mr. Aaqil Ismail – Internal Audit Manager – First National Bank
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