

Stephen Swart

Data Scientist/Computer Programmer

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Flexible, innovative and reliable engineering professional with a strong aptitude for data science and computer programming. Proven history of success in the implementation of process improvement projects in demanding international environments using a diversified skill set covering project coordination, data analysis and modelling, client relations, verbal and written communication and research.

CORE COMPETENCIES

- ◆ Master's degree in Engineering and six years of professional experience within an international Research & Development environment.
- ◆ Strong programming skills with experience in a large number of languages including Python, C++, Visual Basic, PHP, MySQL, Java Script, HTML and CSS.
- ◆ Data analysis and modelling with a good understanding of statistical analysis, regression, reinforcement learning and machine learning techniques.
- ◆ Project coordination by means of creating task lists, scheduling activities, balancing workloads and creating Gantt charts.
- ◆ Strong mathematical and critical thinking skills for problem comprehension and solution development.
- ◆ Excellent verbal and written communication skills with the ability to express complex ideas clearly.

EMPLOYMENT HISTORY

Research Engineer

January 2014 – December 2017

Sappi Technology Centre, South Africa

- ◆ Modelling data obtained from complex industrial processes through machine learning techniques implemented using Python and MATLAB.
- ◆ Develop in-house software and tools in accordance with a software development life cycle (SDLC) using GIT for version control.
- ◆ Design, program and manage a database to maintain a record of data generated from the evaluation of products sourced from suppliers.
- ◆ Analyse data obtained from industrial processes and experimental tests to obtain unique insights for the purpose of achieving project objectives.
- ◆ Propose, coordinate and lead projects for cost reduction and process improvement.
- ◆ Prepare and review professional documents including proposals, technical notes, reports and peer reviewed articles.
- ◆ Assist in the design and regular update of the company's website.
- ◆ Maintain positive relations with external clients and present project findings.
- ◆ Design, control and optimise pilot and large scale process equipment.
- ◆ Maintain high flexibility whilst working in demanding environments and managing multiple projects simultaneously.
- ◆ Conduct and apply project financial calculations.

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Achievements:

- ◆ Following the successful implementation of cost reduction projects yielding savings in excess of \$10 million in 2016, an award in the company's annual excellence competition.

Engineer in Training

February 2012 – December 2013

Sappi Technology Centre, South Africa

- ◆ Data analysis and modelling using statistical analysis and regression techniques.
- ◆ Contribute in project teams and deliver presentations on project findings.
- ◆ Continuous professional learning through online courses, professional networking and research into new technologies and procedures.
- ◆ Extensive use of Microsoft Office tools including Word, Excel, Visio, Outlook, PowerPoint, Access and Project.
- ◆ Independent research and development.

EDUCATION HISTORY

MEng Master of Engineering (Chemical)

January 2012

University of Pretoria, South Africa

(Equivalent to a Master of Engineering degree, as assessed by World Education Services, Toronto, ON)

BEng Bachelor of Engineering (Chemical)

December 2009

University of Pretoria, South Africa

(Equivalent to a Bachelor of Engineering degree, as assessed by World Education Services, Toronto, ON)

COURSES

Data Structures and Algorithms

September 2017

University of California, San Diego

Programming for Everybody (Getting Started with Python)

August 2017

University of Michigan

References Available On Request