**Name:** Simone Dawn Matsukis

**Age:** 24 years old

**Email:** [smatsukis@gmail.com](mailto:smatsukis@gmail.com)  
**Location:** Randburg, Johannesburg, South Africa  
**Current job title:** Junior Algorithm Engineer

**Highest qualification:** Bachelor of Computer and Information Science (Honours)

**Website:** <https://smatsukis.github.io/simone_matsukis/>

**LinkedIn**: <https://www.linkedin.com/in/simone-matsukis-594990201/>

As a Junior Algorithm Engineer, I am passionate about solving challenging problems and exploring new technologies. My expertise lies in automating business processes, developing and designing algorithms, working with large datasets, and object-oriented programming. My strong collaborative skills and positive attitude have been recognized with the Employee of the Month award at TecEx, where I have made significant contributions to the team.

I hold a degree in Computer and Information Science, graduating Magna Cum Laude and achieving the dux of my undergraduate class. Additionally, I recently completed an Honours degree in Computer and Information Science, specializing in machine learning algorithms, and graduated with distinction. I am eager to continue my professional growth in the dynamic and ever-evolving field of IT.

**Work Experience**

**Junior Algorithm Engineer** - TecEx (A division of VAT IT)

*January 2022 - Present*

* Developing algorithms and frameworks for the optimization of business processes
* Business process automation using Python technologies and RPA tooling.
* Developing, testing and debugging current business processes into a collaborated, object-orientated Python application that is integrated with Salesforce.
* Integration and application of external APIs, REST and webhook technologies into current business processes
* Interacting with the Salesforce API, SOQL and large datasets for automations as well as presenting, updating, and creating business data
* Developing threaded, automated web data extraction applications and automated scraping scripts (using technologies like Selenium, beautiful soup and requests for browser automation)
* Working with Linux containers with Flask for creating, deploying, and managing applications (front and backend) in a microservices architecture
* Scheduled and automated scripting for daily reporting, rollups, allocations and updating of business information using Heroku or AWS lambdas.
* Utilizing MongoDB's document model and aggregation framework for NoSQL data storage and manipulation and working with JSON/BSON objects
* Collaboration with team members using GitLab and practicing GitLab best practices utilizing CI/CD principles.

**Junior Programming Analyst** - Worldplay Software Solutions

*November 2020 - March 2021*

* Documenting, refining, and mapping system requirements and processes
* Developing website plugins and integrations with external APIs using PHP
* Developing Frontend and Backend of the site using PHP, Twig, and JavaScript, utilizing the Kirby infrastructure
* Integrating frontend design with backend functionality
* Utilizing Agile methodology and IT project management body of knowledge to document and manage project tasks.
* Communicating and liaising with clients internationally
* Collaborating with team members from around the world using GitHub

**Internship: UA & QA Testing** - Worldplay Software Solutions

*July 2020 - October 2020*

* Conducting quality assurance and user acceptance testing of a CMS web application for an online casino that adheres to multiple international jurisdiction laws.
* Creating and developing test cases specific to each jurisdiction
* Automating testing procedures by developing Python and Selenium scripts to execute test cases.
* Updating and maintaining documentation, as well as assisting with issue reporting and resolution

**University Projects**

*January 2019 - December 2019*

* Development of a HR Management system using MEAN Framework (Leave request and approval system, automatic generation of pay slips in the form of PDFs, development of a tax calculator, automation of vacancy application process, and development of an employee database.)
* Development of a static Website for Visibiliti Marketing (www.wsnh.co.za) following a given mock-up.

**Education**

**Bachelor of Computer and Information Science (Honours) with Distinction**

IIE MSA

*December 2021*

* 8 distinctions achieved.
* Research project focused on using machine learning algorithms to detect student learning styles in an online learning system, especially relevant during the COVID-19 pandemic.

**Bachelor of Computer and Information Science with Distinction**

Monash University

*July 2020*

* 24 distinctions achieved (15 Higher Distinctions)
* Majors: Software Development & Business Information Systems
* In recognition of my achievements, I was awarded the Dux of Undergraduate in 2020, as the top graduating student in my degree. Additionally, I was honored with the Award of Merit in 2019 for ranking second in academic achievement in my second-year studies, and the Award of Excellence in 2018 for being the top academic achiever in my first-year studies.

**National Senior Certificate**

Northcliff High School

*December 2016*

* 3 Distinctions received in Mathematics Core, Accounting and Life Orientation.
* Half Colours for Academics received in Matric (2016).

*Official academic records available upon request.*

**Awards**

**Dux of Undergraduate (2020)**

* The top graduating student in the Bachelor of Computer and Information Science degree in the year 2020.
* Awarded at the 2021 Cliff Bellamy Awards which includes students from Monash Australia, Malaysia, and South Africa.

**Certificate of Competence (2019)**

* Received from university tutoring at Monash South Africa.
* Tutoring a Mobile Communication module, providing academic support and resources.

**Award of Merit (2019)**

* Second Place Academic Achiever for 2nd-year studies at Monash University.

**Award of Excellence (2018)**

* Top Academic Achiever for excelling in first-year studies at Monash University.

**Employee of the Month (March 2023)**

* In recognition of my contribution to a major, ongoing project that aims at scaling the current technological stack at TecEx.
* Praised for my technical insight and ability, time management, communication, debugging skills, positivity and dedication (testimonials available on request).

**Skills**

|  |  |
| --- | --- |
| **Technical:** | **Proficient OO Programming Languages:** |
| * Object-Oriented Programming * Algorithm Formulation and Design * Robotic Process Automation (RPA) * Machine Learning Algorithms * Integration with external and internal APIs | * Python * JavaScript * PHP * Java |
| **Application Deployment:** | **Web Technologies:** |
| * SSH with Linux containers for secure and efficient remote access and management * AWS Lambda development * CI/CD best practices * Collaboration using GitLab | * RESTful API usage and development * Web browser automation technologies (Selenium, Beautiful Soup, Requests) * Flask usage * Web Development and Frameworks (MEAN Stack) * HTML5/CSS3/Jinja - Frontend Rendering |
| **Database and Data Analysis:** | **IT Project Management and Business:** |
| * SQL, NoSQL & SOQL * Databasing * Data Warehousing & Business Intelligence * Excel Spreadsheet Design, Formulation and Computation * Business Decision Modelling and Forecasting * UML Modelling | * IT Project Management - Agile Methodology * Systems and Application Development, Design and Analysis * IT Professional Practice * IT Strategy Formulation and Governance * User Interface and Experience Design |