Micaella Jasmin Patchay

- **Bachelor of Computer Science in Application Development graduate(Av.87%)**
- **Honours in Data Analytics graduate (Av. 81%)**

SKILLS

Tech Stack Skills
•Programming(C#, Java, HTML, CSS, JavaScript, OOP, XAML(WPF), WinForms, C++, Python, ASP.NET, React, NodeJS)
• Databases(SQL,PL/SQL, Postgres, MySQL, UML, OpenSSL)
• System Analysis and Design(SDLC)
• App Development(Android Studio, XML)
• Cloud Development(Azure, MongoDB, Oracle, Firebase Authentication/Real Time Database/Storage, MVC)
• Project Management(Agile, Waterfall, Microsoft Project)
• IDE's(Visual Studio Code, Visual Studio 2019/2022, Android Studio, Netbeans, SQL Server Management Studio, Oracle SQL Developer
• GitHub, Microsoft 365, Visio

PROFILE

I am a dedicated IT professional with a strong academic foundation and a passion for leveraging technology to solve real-world problems. I have a real passion for helping others and continuous learning. I aspire to possess a comprehensive understanding of both the theoretical underpinnings and technical intricacies of Data Analytics and Computer Science, empowering me to make strategic business decisions.

I bring a unique blend of analytical, technical, and innovative skills to every project I undertake. My academic journey, which includes earning a Bachelor of Computer and Information Sciences in Application Development (Cum Laude) and a Postgraduate Honors degree in Data Analytics (Cum Laude), has equipped me with expertise in Software development, Data analytics, and System analysis. I am solution oriented, with hands-on experience in creating innovative applications and uncovering actionable insights from raw data.

I am enthusiastic about exploring various IT roles, from software development to system and business analysis. I thrive in environments that encourage collaboration, creativity, and continuous learning. My goal is to contribute meaningfully to an organization by combining technical proficiency, strategic thinking, and a commitment to excellence. I look forward to growing within a dynamic team and making a lasting impact.

EDUCATION

- **Varsity College** 2024(Jan) – 2024(Dec) Cum Laude- Postgraduate Diploma in Data Analytics (NQF 8)
- **Varsity College** 2020(Jan) – 2022(Dec) Cum Laude- Bachelor of Computer and Information Sciences in Application Development (NQF 7)
- **Varsity College** 2019(Jan) – 2019(Dec) Higher Certificate in IT support services and web development
- **Grosvenor Girls High School** 2013 – 2017 Matric NSC

WORK EXPERIENCE (references on request)
CTU training solutions (Creative & Technology Universitas)
2025(April) – Current
I am currently employed at the CTU Durban Branch as a Software Development Facilitator. I lecture software development modules such as web development(html, css, javascript), programming(c++, python), data visualization, mathematics and other software development modules to students. I set papers, mark, moderate, mentor students, create content for marketing, help organize open days, complete Microsoft certificates as required, I do corporate training on personal computing, cloud development and soft skills and I am also working on collaboration with NGO's to provide final year students with a work integrated learning experience.

Data Analytics Skills

Data Analytics(statistics, business Intelligence, business analytics, systems and processes, mathematical analysis)
• Statistical analysis
• Excel
• Data Science(power BI, data processes, Visualizations)
• Machine Learning(python, TensorFlow, PyTorch, scikit-learn, Spark, linear regression, logistic regression, Support Vector Machine, Jupyter notebooks, visualizations, neural networks, decision trees deep learning, reinforcement learning, AI, naive bayes, KNN, NumPy, matplotlib, pandas, SciPy, Supervised learning models, Unsupervised learning models, k-means clustering, model evaluation(cross validation), pipelines)

Certificates

- LinkedIn Business Analysis Foundations
- LinkedIn Project Management Foundations
- LinkedIn(Ex Learn Technologies 1.0 Cloud Training + Internship Program
- TEFL Teaching course
- Cognifyz Technologies Business Analytics online internship
- Microsoft Azure Fundamentals certificate

Contact Details

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Innovation Technology South Africa 2025(February) – 2025 (March)
Worked as a Junior Software Developer, worked on front-end and back-end bug fixes, testing and deploying, database bugfixes, power BI data reporting and documentation.

Pedros Chicken [Data Analyst Intern] 2024(July) – 2025(January)
Worked part time while completing my honours as a Data analyst intern at Pedros head office. Worked on data reporting and excel manipulation, creating dashboards, snowflake, raspberry pi, Qlik sense, scoping requirements and processes for department insights, matching requirements of business needs and application being developed, worked within a team to help design new user interface.

Brighton Beach Primary School[IT/Admin Assistant/Robotics and coding teacher] 2024(January) – 2024(July) Worked full time on a temporary month to month basis as an IT/admin assistant for Brighton Beach Senior Primary School. Duties including front desk reception, answering calls and replying to emails, capturing and processing learner/staff details, marks, transfers, reports, attendance on SASAMS software, filing and completing LTSM reports and documents, attending meetings and taking down notes, following up and working closely with the IT company to ensure schools IT needs are met as well as help train users, also teaching coding and robotics to grade 7 learners and overlooking curriculum for this subject with HOD.

Ubuso Logistics Admin Assistant 2023(Jan) – 2023(Dec) Worked part-time for a transport company invoicing, filing, emailing statements, excel spreadsheets and small errands.

Imbizo Foundation [Work-Integrated Learning project] 2022(Jan)- 2022(Dec) I have had the opportunity to work with a passionate team of seven students, alongside our clients which consisted of multiple employees and advisors from a non-profit organization called the Imbizo foundation. This work integrated learning project provided me with valuable work experience and insight. Our goal was to develop a fully functioning e-learning application which would allow users to access various scholar-related resources and improve their level of education in a cost-effective manner using Imbizo resources. By utilizing the Software Development Life Cycle (SDLC), alongside our in-depth research, use of various methodologies and continuous client meetings, we were able to impress the Imbizo Foundation and our software was selected as the official software to be used by the Imbizo Foundation from 2023 onwards.

Interests and hobbies

- AI Deep Learning/Machine Learning
- Padel
- Gym
- Planning and Coordinating events
- Coding websites for fun