

# MARIUS GRASSMAN

BSC(HONS) COMPUTING: SOFTWARE ENGINEERING

📞 082 414 3629 | 📩 [marius-jnr@outlook.com](mailto:marius-jnr@outlook.com) | 🌐 Eldoraigne, Centurion, Gauteng | 🔗 [LinkedIn](#) | 🖥 [GitHub](#)

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## ABOUT ME

I'm eager to begin my journey in the tech industry, with the long-term goal of becoming an AI Engineer. I'm driven by curiosity and a genuine interest in learning new technologies. I enjoy working in teams and value the opportunity to connect with new people. This path is just getting started, and I'm ready to grow into it.

## EDUCATION AND CERTIFICATION

BSc(Hons) Computing: Software Engineer   Belgium Campus ITversity	Jan 2023 – Present
• Consistently ranked in the top 5 for three consecutive years	
• Served as a tutor, assisting peers in various subjects	
• Achieved 26 out of 27 distinctions ( 1 <sup>st</sup> and 2 <sup>nd</sup> year combined )	
<b>C# (Basic) - HackerRank</b>	May 2025
<b>Frontend Developer (React) - HackerRank</b>	May 2025
<b>Azure AI Foundry - Microsoft ( Skills Fest )</b>	Apr 2025 – May 2025
<b>REST API (Intermediate) - HackerRank</b>	April 2025
<b>Solution and Software Architecture - TestDome</b>	May 2025
<b>AI &amp; ML Fundamentals – O'Reilly</b>	April 2025 – May 2025
<b>Basics of Quantum Information – IBM</b>	Feb 2025 - May 2025

## TECHNICAL SKILLS

- **Languages:** C#, Python, JavaScript, HTML, CSS, Delphi, C++ (limited to microcontroller and 3D-printing IDEs).
- **Frameworks & Libraries:** .NET Core, ASP.NET, React.js, Node.js, Express.js, EJS, Bootstrap, Tailwind
- **AI & Data Science:** Scikit-learn, Pandas, Matplotlib, NumPy, TensorFlow, Dash, Microsoft Agents
- **Tools & Platforms:** Visual Studio, WebStorm, Git/GitHub, Azure, Docker, OctoPrint, Bash, Anaconda
- **Databases:** Microsoft SQL Server, MongoDB (Data Modeling, Aggregation Framework, Indexing, Query Optimization, Replication, Sharding)
- **Soft Skills:** Project Management, Software Design and Architecture, Strong Communication, Problem Solving, Critical Thinking
- **Concepts:** Linear and Non-linear Programming, Software Design and Architecture, SDLC, Ethical AI production

## WORK EXPERIENCE

Junior Data Systems Developer | Concrete Testing Equipment

Aug 2024- Nov 2024

- Designed and implemented a small relational database system linking Excel and SQL Server to track client information and machine calibrations in real time.
- Developed a secure front-end interface using HTML, CSS, JavaScript, C#, and SQL to manage data entry, display calibration histories, and update machine statuses.
- Ensured system reliability and usability by automating backups, applying role-based access control, and creating user documentation and training materials.
- I was a Full-Time Handyman at this company. The opportunity arises and I took it.
- References: Admin – 072 674 7310, Chris/Janezi

## PAST | CURRENT PROJECTS (NOTEWORTHY) :

Smart Home Automation System

- Technologies: C#, .NET Core, Multithreading, Custom Events, Scheduled Tasks

Interactive Course Website

- Technologies: HTML, CSS, JavaScript, JSON, DOM Manipulation, Responsive Design

Student Performance Prediction System

- Technologies: Python, Pandas, Scikit-learn, XGBoost, Keras, Dash

Credit Risk Assessment Model

- Technologies: Python, Dash, Random Forest, Deep Learning predictive model

Invasive Plant Detection using Machine Learning and Image Processing ( Current )

- Technologies: Google Street View API, OpenCV, TensorFlow, YOLOv5, QGIS

Distributed NoSQL Database System for E-commerce Marketplace ( Current )

- Technologies: (MongoDB, Apache Cassandra), Node.js, Express.js, Docker, RESTful APIs, JSON, Git, GitHub

Dynamic Community Portal Website

- Technologies: Node.js, Express.js, EJS, CSS, Bootstrap 5, Git, GitHub, Nodemon