MC WOLMARANS

CONTACT DETAILS

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- mcwolmarans.co.za
- Martinus Christoffel Wolmarans

PERSONAL DETAILS

First Name: Martinus Christoffel
Surname: Wolmarans
Languages: English, Afrikaans

TECHNICAL SKILLS

- **Programming Languages:** C#, Python, JavaScript, Java, HTML, CSS3
- **Backend Frameworks:** ASP.NET MVC, FastAPI, Express.js, Entity Framework
- **Frontend Technologies:** React, JavaScript, HTML5, CSS3
- **Databases:** SQL Server, PostgreSQL, MongoDB
- **Development Tools:** Git, GitHub, Visual Studio, VS Code, Node.js
- **Platforms:** Windows, Linux, Arduino Prototyping
- **Specialisations:** RESTful APIs, Full-Stack Development
- **Development Practices:** Object-Oriented Design, Software Architecture, Agile Methodologies, Secure Coding, Version Control, Database Normalisation, Testing & Debugging

CORE COMPETENCIES

- **Full-Stack Development** – Designing and implementing scalable web applications from database to frontend
- **Technical Leadership** – Mentoring 4+ students in programming concepts and best practices as university tutor
- **Problem-Solving & Analysis** – Applying critical thinking to debug complex systems and optimise performance
- **Project Management** – Successfully delivering multiple projects while maintaining 90%+ academic average
- **Stakeholder Communication** – Collaborating with clients and teams to align technical solutions with business needs
- **Continuous Learning** – Rapidly adopting new technologies and frameworks to stay current with industry trends

PROFESSIONAL SUMMARY

High-achieving Software Engineering student with 90%+ academic average and top achiever status in first and second years. Proven full-stack development expertise across C#, Python, JavaScript, and Java ecosystems. Experienced in building scalable web applications, RESTful APIs, and AI-powered solutions using modern frameworks and databases. Combines strong technical skills with leadership experience as a university tutor, delivering clean, user-focused code while mentoring fellow developers.

EDUCATION

Bachelor of Computing (Software Engineering) (NQF 8)
Belgium Campus, Pretoria
2023 – Present
- First-Year average: 91% (Top Achiever)
- Second-Year average: 90% (Top Achiever)

Grade 12 (National Senior Certificate)
HTS John Vorster, Pretoria
2018 – 2022
- Valedictorian (86% average, six distinctions)

WORK EXPERIENCE

University Tutor
Belgium Campus, Pretoria
February 2024 – December 2024
- Led tutorial sessions for undergraduate students in programming, database management, web development, statistics, and mathematics
- Provided one-on-one mentorship and facilitated workshops, enhancing student comprehension through structured study guides and increased engagement

Mathematics and Physical Science Tutor
Meta Centre, Pretoria
March 2023 – November 2023
- Delivered personalised instruction in Mathematics and Physical Science for Grade 8–11 learners, improving academic performance and exam readiness
- Created custom learning materials and digital exercises, resulting in measurable grade improvements for nine students

KEY PROJECTS

TheologyLens – AI-Powered Scripture Search
Python, FastAPI, React, SentenceTransformer, FAISS
Semantic search tool enabling users to query the Bible by meaning rather than keywords, implementing vector-based semantic search using SentenceTransformer and FAISS.
- Built RESTful FastAPI backend with modular React frontend
- Developed clustering features to improve query optimisation
- Demonstrates expertise in NLP, AI application design, and full-stack integration

MCC Limpopo Corporate Website
HTML5, CSS3, JavaScript
Custom business website built to establish digital credibility for an industrial services firm.
- Designed and developed responsive layout with clear information architecture
- Applied UX principles to ensure clarity, accessibility, and professional presentation
- Collaborated with stakeholders to align branding and content strategy

Interactive Digital Portfolio Book
JavaScript, Turn.js, Responsive Design
Innovative personal portfolio site presented as an interactive digital book experience.
- Developed custom page-flipping interface using Turn.js for immersive storytelling
- Integrated smooth navigation and responsive layouts optimised for all devices
- Showcases creative frontend development and user-centred design principles