ELTON TATENDA MATANDA

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Full Stack Developer specialising in AI Integration, Computer Vision & Automation Engineering

EXPERIENCE

Full Stack Software Developer
August 2025 – Present

Sherbet Agency — South Africa

- Engineered a high-performance Visual Design QC Tool using Python, OpenCV, and Streamlit, implementing multi-threaded parallel processing to automate design quality assessment across 11 distinct mathematical dimensions.
- Developed scalable web applications utilising a modern stack including Vite, TypeScript, React, shadcn-ui, and Tailwind CSS.
- Trained custom AI vision models using YOLO and TensorFlow to detect faces and objects, enabling advanced image analysis and content verification.
- Implemented corruption detection algorithms using NumPy, Scikit-learn, and SciPy to identify pixelation and artifacts, achieving 85% accuracy in differentiating professional vs. amateur designs.
- Built an AI Storybook Generator integrating the Gemini API to create personalised dynamic narratives and illustrations.
- Designed and implemented robust automation workflows across Microsoft Power Automate, Monday.com, Make.com, Zapier, and Pipedream to streamline agency operations.
- Developed a receipt processing solution for the Dischem Better Rewards campaign using Twilio and Pipedream, utilising OCR technology to automate the reading and verification of till slips via WhatsApp.

Web Developer Intern
February 2024 – July 2025

Moor's World of Sport — Zimbabwe

- Assisted senior developers in building and deploying responsive websites and web-based tools.
- Converted visual designs into clean, standards-compliant front-end code with a focus on accessibility and cross-browser consistency.
- Configured and extended content management platforms used by internal teams for day-to-day site updates.
- Improved site performance, search-engine readiness, and code quality through guided refactoring and testing.
- Collaborated across project planning, version control, and delivery milestones.

EDUCATION

Bachelor of Science in Computer Science — Graduated January 2024
Apr. 2022 – Jan. 2024

University of the People — Pasadena, CA

Bachelor of Science in Information and Knowledge Systems
Jan. 2019 – Dec. 2019

University of Pretoria — Pretoria, GP

CERTIFICATIONS

Google UX Design
Oct. 2024 – Jan. 2025

Coursera

- User-Centred Design Principles, Wireframing, and Prototyping.
- Visual Design Principles and Portfolio Development.

Google Data Analytics
Oct. 2024 – Jan. 2025

Coursera

- Data processing, analysis, and visualisation techniques.
- Spreadsheet management, SQL basics, R programming, Python, and Tableau.

PROJECTS

Dear Africa Child Website | Web Development, SEO

- Developed a comprehensive website for the NGO “Dear Africa Child” (dearafricanchild.org) to enhance their digital presence and outreach.
- Implemented advanced SEO strategies including keyword optimisation, meta tag management, and site speed improvements to maximise visibility.
- Ensured responsive design and accessibility compliance to reach a wider audience across various devices.

Simple Catch Game | C#

- Developed a 2D interactive game using C# as part of a university group project.
- Led a team of three, facilitating code reviews and task management.
- Enhanced problem-solving skills through implementing game physics and collision detection.

Valentines Website | HTML/CSS/JavaScript

- Developed a responsive interactive website showcasing frontend web development skills.
- Implemented dynamic user interactions and cross-browser compatibility.

TECHNICAL SKILLS

Languages: Java, Python, C++, C#, SQL, TypeScript, JavaScript, HTML/CSS, R Programming

Frameworks & Libraries: React, Angular, .NET, Vite, Tailwind CSS, shadcn-ui, Streamlit, OpenCV, NumPy, Pandas, Scikit-learn, SciPy, Matplotlib

Tools & Automation: Monday.com, Make.com, Zapier, Pipedream, Twilio, Microsoft Power Automate, Figma, Linux, MySQL

Core Skills: Full Stack Development, Automation, API Design, Agile, SDLC, AI/ML Integration, Computer Vision