Tatenda Tachivona

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SUMMARY

Computer Science student at the University of Liverpool specializing in Back-end Engineering, Embedded Systems, and AI/ML. Proficient in Python and C/C++, with a portfolio spanning real-time Computer Vision, full-stack web applications, and IoT systems. Currently maintaining a first class average while leading technical initiatives for the Coding and Robotics Society.

EDUCATION

University of Liverpool   **September 2024 - present**

Bachelor of Science in Computer Science with Software Development   *Liverpool, United Kingdom*

- Recipient of the Undergraduate Global Advancement Scholarship and maintaining a first class average
- Software Expert of the Coding and Robotics Society, where I have reinforced my **C++ proficiency**, **debugging**, and **problem-solving** skills
- Competed in 7 archery tournaments and 60+ training sessions, developing **teamwork** and **discipline**

Relevant Courses:

- Group Software Project
- Software Engineering 1
- Software Development Tools
- App Development
- Database Development
- Object-oriented Programming
- Data Structures and Algorithms
- Introduction to Artificial Intelligence
- Advanced Artificial Intelligence
- Designing Systems for the Digital Society
- Programming Paradigms
- Principles of C and Memory Management

Eaglesvale Senior School   **January 2020 - November 2023**

High School Diploma   *Harare, Zimbabwe*

- Achieved 3 A*s in Computer Science, Mathematics and Physics (Cambridge A Levels)
- Captained the Debate Society, Robotics Club, and Art Club, bolstering **interpersonal skills**, **leadership** and **creativity**

TECHNICAL SKILLS

- **Web & Frontend:** HTML5, CSS3, TailwindCSS, REST APIs
- **Backend & Cloud:** Python, FastAPI, Flask, PostgreSQL, SQLite, Supabase, Docker
- **AI & Robotics:** Raspberry Pi, Arduino, C/C++, TensorFlow
- **Tools & Methods**: Git/GitHub, Agile/Scrum

PROJECTS

Marketplace Web App - *Python, Flask, Supabase, PostgreSQL, HTML, TailwindCSS*

- Designed a marketplace platform with a user-centric approach, for users to list, browse, and purchase items
- Managed version control via **GitHub**, utilizing **branching and pull requests** to maintain code integrity.
- Enhanced **problem-solving** and **analytical thinking** by optimizing back-end processes using Flask and Supabase

Spotify RFID Controller - *Raspberry Pi, Python, Spotify API*

- Developed an IoT device that plays Spotify playlists/albums using RFID tags, linking 60 RFID cards to playlists and albums
- Implemented tag scanning, URI retrieval, data storage and 4 playback controls, requiring **resilience** in **debugging** hardware-software interactions
- Improved skills in API integration, **hardware programming**, and Python scripting

Real-Time Hand Gesture Classifier -Python, TensorFlow, OpenCV

- Developed and trained a Convolutional Neural Network (CNN) using transfer learning to classify hand gestures(rock, paper, scissors) achieving an accuracy of 84%+ in real time classification
- Built an end-to-end innovative solution, from custom dataset curation to real-time model deployment.
- Applied computer vision using OpenCV to capture and process webcam frames integrating the model in real time classification

WORK EXPERIENCE

University of Liverpool   **November 2025 – present**
International Student Ambassador   *Liverpool, United Kingdom*

- Act as a brand representative, effectively communicating the university's value proposition to a global audience.
- Strategized and produced digital content for university social media channels, resulting in increased engagement and successfully promoting the university's brand to a global audience.
- Actively mentor and advise prospective international students, managing a high volume of inquiries and providing clear, professional guidance on university life and academic requirements.

RaceTrac   **April 2024 – July 2024**
Guest Service Associate   *Riviera Beach, Florida*

- Processed transactions for an average of 100+ guests per shift, balancing cash and inventory with 97% accuracy
- Delivered swift, friendly service, strengthening **customer-oriented communication** and **active listening**
- Resolved or escalated 100% of guest complaints promptly, maintaining a positive customer experience while developing **composure** and **problem-solving** under pressure.

Eaglesvale Senior School   **January 2022 - November 2023**
Tutor   *Harare, Zimbabwe*

- Conducted weekly tutoring sessions with 5+ students, improving average exam performance by 24% across key subjects.
- Provided comprehensive feedback and **clear communication** while tutoring, leading to measurable progress in 60% of participants
- Promoted engagement by encouraging active Q&A, raising class participation by 40%