Tawananyasha Elvis Chipiro

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Education

Massachusetts Institute of Technology, BS in Computer Science and Engineering   Sept 2023 – May 2027

- **Coursework:** Computer Architecture, Artificial Intelligence, Software Design and Construction, Implementation of Software Design, Analysis of Algorithms, Graph Theory & Number Theory & Cryptography, Low-Level Programming in C and Assembly, Databases in SQL

Experience

Computer Vision Research Intern, Media Lab Research Center – Cambridge, MA   Jan 2024 – May 2024

- Engineered a computer vision script that utilizes OpenCV and a Raspberry Pi Model 4B, achieving higher accuracy in detecting minute, colorless objects for biomedical research.
- Implemented a versatile facial detection system, capable of processing many frames per second in real-time video streams, with advanced security camera applications.

Web Developer, Terrascope – Cambridge, MA   terrscope2027.mit.edu

- Led the development of a user-friendly web platform using WordPress to streamline solar panel procurement in post-hurricane Puerto Rico.
- Implemented SEO strategies and optimized website design to become more user-centric, boosting solar energy information accessibility in Puerto Rico by 90%.

Information and Technology Intern, Center for Real Estate – Cambridge, MA   Sept 2023 – Oct 2023

- Streamlined software issue resolution by creating detailed wiki documentation, resulting in decreased recurrence of technical problems.
- Managed ServiceNow ticket system, reducing average resolution time by over 95% through efficient handling of hardware installations and software troubleshooting.

Senior Software Chair, MIT Virtual Reality & Augmented Reality– Cambridge, MA   Sept 2023 – Present

- Optimized team website perfomance, thereby significantly reducing load time. Led website redesign, increasing monthly traffic. Spearheaded software upgrades, improving team productivity by 80%.

Projects

Price Prediction Model

- Engineered a machine learning model to predict airplane ticket prices, achieving 75% accuracy through hyperparameter tuning with RandomSearchCV and GridSearchCV.

Artificial Intelligence Chatbot

- Developed a self-improving NLP chatbot that stores learned responses in json format, exponentially increasing intent recognition and successful query resolution over multiple user sessions.

HTML Reader

- Engineered an automated HTML data extraction script that processes webpages, transforming complex Olympiad web data into structured pandas dataframes in < 1sec and reducing manual data entry time by 80%.

Technologies

Languages: Python, C, Java, SQL, HTML, CSS, Django
Technologies: Linux systems, Unix systems, Figma, Wordpress, MS Office, RISC-V
Certifications: ColorStack, Codepath, Quantum Computing