Ebenezer Tseh

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EDUCATION

Harvard University – Cambridge, Massachusetts, USA Graduating May 2027
Major: Computer Science **Honors**: Harvard College Scholar

Relevant Coursework: Introduction to Computer Science (CS50), Discrete Mathematics, Intro to Algorithms (Fall 2024), Data Visualization (Fall 2024), Data Structures and Algorithms (Spring 2024).

TECHNICAL SKILLS

Languages: Python, Swift, Kotlin, SQL, JavaScript, C/C++, PHP, Java, Dart, HTML/CSS
Technologies: Flask, Bootstrap, Laravel, Git/GitHub, ReactJS, NodeJS, TensorFlow, ExpressJS, Taipy, MongoDB

PROFESSIONAL EXPERIENCE

Melit Trade – Remote May, 2024 - Present
Software Engineer Intern

- Developed a full-stack international trading and e-commerce platform using React.js, Node.js, and MongoDB, facilitating seamless transactions for users across 4 countries.
- Enhanced site responsiveness and scalability by implementing Redux for state management, reducing page load times from ~1 min to ~30 secs.
- Integrated Stripe payment gateway, streamlining the checkout process and reducing transaction time by 25%, resulting in a 15% increase in completed orders.

Vodafone Ghana – Accra, Ghana May, 2023 - July, 2023
Software Engineer Intern

- Collaborated in a cross-functional team, adhering to agile methodologies, to develop an AI chatbot for Vodafone's app using Kotlin, enabling efficient customer support via natural language interactions.
- Integrated TensorFlow Lite and Google's Machine Learning Kit for natural language processing (NLP), allowing the chatbot to understand and respond intelligently to user queries.
- Optimized app performance by implementing efficient algorithms and streamlining databases under the guidance of senior engineers, achieving a 30% reduction in load times.

PROJECTS & OUTSIDE EXPERIENCE

Crimson Mart | Flask, SQL, JavaScript, Bootstrap **Project Link**

- Developed a secure e-commerce platform for Harvard students, using Flask and SQL for backend operations, coupled with a robust front-end design employing HTML, CSS, JavaScript, and Bootstrap.
- Designed a secure authentication system with encrypted password management and robust session controls.
- Integrated core e-commerce features, such as product listings, shopping cart optimization, and a streamlined checkout process, significantly improving user engagement and efficiency.

Expensso AI | Swift, SwiftUI, Firebase Firestore, OpenAI API **Project Link**

- Developed an AI-powered expense management app for iOS and iPadOS, utilizing Swift and SwiftUI to create a responsive and adaptive user interface.
- Integrated Firebase Firestore for real-time database management, ensuring instant synchronization and secure storage of user expense data across devices.
- Implemented natural language processing (NLP) with OpenAI's API, enabling AI-driven voice and text interactions for logging, retrieving, and visualizing expenses, enhancing user engagement.

Image Classifier | TensorFlow, Python, Numpy, Pillow, Taipy GUI **Project Link**

- Developed and trained a (CNN) to classify images from the CIFAR10 dataset, achieving 80% accuracy.
- Normalized pixel intensities and applied One-Hot Encoding to optimize data processing efficiency
- Designed and deployed an interactive graphical user interface (GUI) using Taipy, enabling users to easily upload images and view classification results.

LEADERSHIP & CAMPUS INVOLVEMENT

Domi Technologies**, (***Software Developer),* **Harvard Society of Black Scientists and Engineers** (*Member*), **Harvard Undergraduate Machine Intelligence Community** (*Member),* **ColorStack(***Community Member)*