

SAMUEL EMMANUEL D.

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SUMMARY

Young and passionate software engineer and UI designer with a track record of successful collaboration with diverse international and local teams, driving innovation and delivering exceptional solutions.

EDUCATION: Alx Software Engineering

Houston

01/2020-12/2020

Core Programmes:
OPerating System, Dbms, Data Structures and algorithms , Design and Analysis of Algorithms, Dynamic Programmings

WORK EXPERIENCE

SAF Signals Cloud & Digital Office

Singapore, SG

11/2023-08/2024

Software Engineer

- Worked alongside army regulars to create cross platform app that targets troopers deployed for overseas joint exercises
- Made use of skills in Figma, React Native alongside backend architecture such as Firebase and Flask
- Applied knowledge in Model-View-Controller (MVC) architecture and collaborated with senior officers to deploy app for troopers
- Efforts were recognised by Chief Signals Officer, other formations leaders and Chief of Army
- Core tools used include **React Native, Kotlin Jetpack Compose, SwiftUI, Vue3, Pinia and TailwindCSS**

Souqify.com

UAE, Dubai

06/2022-

Web Scrapping and Fullstack Web Developer

12/2022

- Led and coordinated a team of experienced developers to build high-performance web scraping solutions and fullstack applications, ensuring efficiency and scalability.
- Developed robust data extraction pipelines using **Python (BeautifulSoup, Scrapy, Playwright)** to automate large-scale
- Engineered a dynamic, user-friendly scraping dashboard with **React (Next.js)** and **TailwindCSS**, enabling seamless data management and real-time insights.
- Designed and optimized scalable backend systems using **Node.js (Express)** and **Django**, ensuring smooth data processing and API interactions.
- Core tools:** Python, JavaScript, FastAPI, Django, Express, React, Next.js, TailwindCSS, Playwright, Scrapy, Docker, AWS.

Freelance

USA

01/2022-

React Engineer

05/2022

- Worked with Next.JS to create a next generation HR SaaS tool targeting corporations based out of North Carolina, USA
- Made use of Tailwind's brand new UI component set and integrated APIs from Xano
- Worked closely with Project Manager to integrate Agile workflow into the development of the frontend application
- Made use of React Query and TanStack Library APIs to implement data management and flow for web app
- Core frameworks used include **React, React Query, TanStack & TailwindCSS**

Freelance Vue.JS Developer

USA

01/2023

Web Developer

- Successfully developed and deployed various versions of my innovative Vue.JS Web OS template, catering to a diverse range of clients
- Clientele ranged from Los Angeles-based Photography Freelancer, Miami-based Music Production Company and Media Company in Nevada
- Custom functions and new windows were tailored to precisely fit client's unique requirements
- Core frameworks used include **Vue2 & Vuex**

PERSONAL PROJECTS & INTERNSHIP EXPERIENCE

Deep learning for computer visions with python and TensorFlow [Car price predictions]

08/2024-10/2024

- Designed and trained **neural networks** using **TensorFlow & Keras** to develop an advanced **car price prediction model**, improving valuation accuracy.
- Collected, cleaned, and processed large automotive datasets with **Pandas & NumPy**, ensuring high-quality input for model training.
- Core tools:** Python, TensorFlow, FastAPI, Pandas, NumPy, keras

Deep learning for computer visions with python and TensorFlow [Malaria Diagnose]

08/2024-10/2024

- Developed a **malaria diagnosis model** using **TensorFlow & Keras**, leveraging convolutional neural networks (CNNs) for accurate image-based detection.
- Processed and augmented medical image datasets with **OpenCV & NumPy**, improving model robustness and generalization.
- Implemented **transfer learning** with pre-trained models like **EfficientNet & ResNet**, significantly enhancing classification accuracy.
- Deployed the trained model via **FastAPI**, enabling seamless API integration for real-time malaria detection.
- Utilized **TensorFlow Serving & Docker** for scalable and efficient deployment in medical applications.
- Core tools:** Python, TensorFlow, FastAPI, Pandas, NumPy, keras

AI-Powered Web Scraping web app

08/2024-10/2024

Webscrapping application

- Designed and developed a **custom mobile application** using **Next.js** and other modern web technologies for a smooth, responsive user experience.
- Integrated **LangChain & Ollama LLM** to process, summarize, and structure scraped data, enhancing usability and insights.
- Optimized performance with **asynchronous processing (Asyncio & Celery)**, improving efficiency in large-scale data extraction tasks.
- Core tools:** Python, BeautifulSoup, LangChain, Ollama LLM, Streamlit, Asyncio,

Web Application Development[Custom Phone Case Web Application]

- Designed and developed a **custom web application** using **Next.js** to deliver a fast, responsive, and user-friendly experience.
- Leveraged **React** and **Next.js** for building dynamic, high-performance web pages with seamless client-side

navigation.

- Integrated **Firebase** for **real-time data synchronization** and **user authentication**, ensuring secure user interactions and smooth updates.
- **Core tools:** Python, BeautifulSoup, LangChain, Ollama LLM, Streamlit, Asyncio,
- Crafted a **modern UI/UX** with **TailwindCSS**, delivering a visually appealing and highly intuitive interface.
- **Core tools:** Next.js, React, Firebase, TailwindCSS, Redux, Docker, AWS.

Web Application Development [Real Estate Web application]

- Designed and developed a **real estate web application** using **React.js** and **Redux**, ensuring smooth user experiences and dynamic content management.
- Leveraged **React** and **Next.js** for building dynamic, high-performance web pages with seamless client-side navigation.
- Implemented **real-time property listings** and **search functionality**, allowing users to filter and explore properties efficiently.
- **Core tools:** Python, BeautifulSoup, LangChain, Ollama LLM, Streamlit, Asyncio,
- Built a **responsive UI/UX** with **TailwindCSS**, providing an engaging and visually appealing interface that adapts across devices.
- Utilized **Redux** for state management, ensuring a seamless and consistent user experience throughout the app.
- Integrated a **backend API** for property data synchronization and user interactions, ensuring real-time updates and data consistency.
- Optimized the app for **performance and scalability**, ensuring quick load times and smooth user interactions.
- **Core tools:** React.js, Redux, TailwindCSS, Docker, AWS.

INTERNSHIP EXPERIENCE

CognoRise Info Tech

Nigeria

11/2020–07/2021

Python Programming Intern

- Gained hands-on experience in **Python programming** by working on real-world projects and contributing to development tasks.
- Assisted in developing **automated scripts** to streamline data processing and enhance system performance.
- Collaborated with senior developers to build **backend functionalities** for internal tools using **Flask** and **Django**.
- Gained proficiency in **data manipulation and analysis** using **Pandas** and **NumPy**, providing actionable insights from datasets.
- **Core tools:** Python, Flask, Django, Pandas, NumPy, SQL.

Core Skills:

Web: Vue.JS, React, Flask, SQL, MongoDB, AWS, Firebase, Figma, Django, Pandas , Numpy

Languages: JavaScript, Python, C/C++

Others: Git, GitHub

SKILLS

Web: Vue.JS, React, Flask, SQL, MongoDB, AWS, Firebase, Figma, Django, Pandas , Numpy

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Others: Git, GitHub