Toddeh Alexander

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EDUCATION

California State University, Fullerton   Fullerton, CA
Bachelor of Science in Computer Science | Minor in Cybersecurity   Expected Graduation: December 2024
Coursework: Web Security, Malware Analysis, Blockchain Technologies, Network Security, Data Structures, Algorithms

SKILLS

Languages: Python, C++/C, JavaScript, CSS, HTML, R   **Backend:** React, Node, Firebase, SQL, PHP, Flask
Developer Tools: Git, Github, Linux, NumPy, Pandas, Matplotlib, Docker, CI/CD

EXPERIENCE

Kayne Anderson Rudnick   Los Angeles, CA
Information Technology Technician - Intern   January 2022 - August 2022
- Designed, assembled, and constructed a **500-square-foot server room**, racked **10 Cisco switches and routers,** assisted in managing storage, network configuration, and power management
- Streamlined inventory management by cataloging and audits, saving **20+ hours** per week, improving product forecasting
- Delivered technical support to **50+ employees,** addressing OS (Windows, MacOS, Linux), hardware and software issues

Glendale Community College   Glendale, CA
Student Ambassador   March 2021 - June 2022
- Delivered comprehensive and effective assistance to 100+ students daily by guiding them through their onboarding phase in both online and in-person environments.
- Reached over 25,000 students by creating YouTube videos to help students navigate online & remote environments

PROJECTS

Pokemon Master - *React, Python, Flask, OpenAi* | [Github]   May 2024
- Engineered a full-stack web application with **React** front end and **Flask** back end, enabling real-time Pokemon battles against AI opponents powered by minimax algorithms including type effectiveness calculations and GPT-4
- Optimized decision-making algorithms by performing **alpha-beta pruning** within a minimax strategy, reducing search space and computation time of move selection by **90%, 50->5 seconds**, resulting in quicker and more strategic gameplay

Imgur Clone - *PHP, MySQL, JavaScript, Docker, Adminer* | [Github]   May 2024
- Developed a secure web application using PHP, MySQL, and HTML/CSS allowing users to upload images (JPG, PNG, GIF) with client and server-side validation, store images in SQL, and display user images in a gallery with real-time previews
- Implemented user upload image with **base64 encoding**, logging upload activities, enforcing restrictions on allowed file types and maximum size limits, storing image data, and using prepared statements to prevent SQL injection
- Applied **Docker** containerization to enforce version control and assured consistency across 3 different environments

GitHub Push Checker - *JavaScript, Chrome Web Store* | [Github]   March 2024
- Constructed Chrome extension using JavaScript to track GitHub push events, enhancing user experience by utilizing GitHub's API, achieving over **500 impressions** and a **5-star rating** on the Chrome Web Store
- Incorporated loading indicators, error handling, and input sanitization to maintain a smooth and secure user experience
- Took advantage of browser local storage to persist user-specific streak information due to GitHub API rate limits, executing client-side data management techniques to overcome API limitations while maintaining a **98% user retention rate**

Ai Educational Chatbot - *React, Flask, Docker, OpenAi, Llama Index* | [Github]   February 2024
- Led a team of **4 developers** during a 24-hour hackathon, resulting in a functional educational chatbot
- Transformed content from 3 textbooks into queryable **vector embeddings** stored in a vector database to enable efficient and accurate information retrieval
- Leveraged OpenAI API for data extraction and response generation, applying natural language processing techniques to ensure precise, contextually relevant, and accurate answers derived from textbook content

Code Racer - *JavaScript, Firebase, HTML, CSS* | [Github]   June 2023
- Developed a web application focused on enhancing users' typing speed and accuracy while teaching **10+** sorting algorithms, fostering a practical and engaging learning environment for programmers of all skill levels
- Implemented **AES 256-bit encryption** protocols to encrypt securely and decrypt users' sensitive personal information
- Established **NoSQL** database with Firebase, tuning query performance, accommodating 1,000 live concurrent users