Toddeh Alexander

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WORK 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

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

Clash of Bots - *Python3, Discord, Matplotlib*   *[Github]* - April 2024
- Crafted a Python application and **Discord Bot** integrated with the Clash of Clans API, leveraging its endpoints to retrieve and analyze comprehensive data on players, clans, and clan war leagues, boosting data-driven decision-making
- Integrated an API authentication mechanism leveraging **OAuth2** and **Bearer tokens**, only authorized access to the API
- Employed data visualization techniques using Matplotlib to generate insightful graphs and charts for clan war league data

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

EDUCATION

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

SKILLS

Languages: Python, C++/C, JavaScript/TypeScript   **Frontend / Mobile:** React.js, Swift, HTML/CSS
Backend: MySQL, PHP, Flask, Docker   **Other:** Git/Github, OpenAI, pfSense, Wireshark