Kevin Fan

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OPEN SOURCE PROJECTS

SQLizer   https://github.com/kfan1/Nothing

- A web-based application that allows users to visually interact with SQL databases to generate queries
- Built responsive and interactive user interface with Redux, allowing for centralized state management with the implementation of a store and Flux architecture
- Modularized using React containers and components for easy maintenance and uniform codebase
- Architected Node.js/Express server to handle HTTP based on the middleware design pattern, with routers and controllers to modularize backend requests and handle CRUD functionality
- Authenticated users with Bcrypt applying hashing and salting for industry standard cyber security

ReKuberate   https://github.com/oslabs-beta/ReKuberate

- Collaborated with an Agile team to build a lightweight, visual representation of Kubernetes clusters to monitor pod health and metrics including uptime, availability, request per second, CPU usage, and memory, all hosted through AWS
- Utilized AnyChart to display real time statistics on Kubernetes nodes visualized through interactive network graphs
- Adapted Grafana to present relevant data curated from Prometheus, embedded directly into the application
- Compiled using Electron for users to have a dedicated GUI with cross-platform support and deployed through Docker for consistent performance on different environments with version control and CI/CD using Github Actions
- Implemented frontend testing with React Testing Library, backend with Supertest, and end-to-end with Puppeteer
- Written in Typescript to main consistency throughout the code and facilitate clear code communication

Python Blog   https://github.com/kfan1/kevin-blog

- Created a full-stack blog written in Python taking advantage of Flask and Jinja for framework and templating, Werkzeug for password authentication, and SQLAlchemy for data storage

PROFESSIONAL EXPERIENCE

Houwzer, Inc.   **Philadelphia, PA**
Real Estate Salesperson   December 2021 – January 2023

- Settled nine transactions during the first year with sales worth over $4 million
- Worked with residential clients to purchase and sell properties by managing expectations, negotiating, understanding market trends, and focusing on details
- Managed client and company information using Copper CRM, Asana, and Google Workspace

广州市晶品电子商务有限公司 (Guangzhou Jingpin E-Commerce Co., Ltd.)   **Tianhe, Guangzhou, China**
Application Developer, OEM Development Team   June 2018 – August 2018

- Debugged and reprogramed in Java using Android Studio to improve user interface and experience
- Developed Zebra, a social media application that allowed users to schedule community events open to either a private group of invited users or to the public, eventually sold to Tencent for $20 million USD
- Translated Chinese applications into English

Starbucks   **Lansdale, PA**
Shift Manager   January 2014 – April 2021

- Managed employee time-shifts, including distributing breaks and finding coverage
- Prioritized customers to provide quality service and resolved complaints
- Head of teaching and training development for the Greater Philadelphia Area

Villanova University Physics Department   **Villanova, PA**
Teaching Assistant/Tutor   January 2017 – May 2019

PROFESSIONAL DEVELOPMENT & EDUCATION

Codesmith   **Virtual**
Advanced Residency for Software Engineering   April 2023 – July 2023

Villanova University   **Villanova, PA**
Electrical Engineering   September 2019 - December 2020
- **Relevant Coursework:** Fundamentals of Electrical Engineering I & II, Signal Processing, Electronic Materials and Devices, Engineering Electromagnetics, Data Structures, Computational Thinking, Advanced Fourier Transforms

Eastern University   **St. Davids, PA**
Applied Mathematics   September 2015 - May 2019
- **Relevant Coursework:** Computer Science I & II, Discrete Mathematics, Number Theory, Differential Equations, Statistics, Math Logic

SKILLS, ACTIVITIES & INTERESTS

Licenses and Certificates: PA Real Estate Salesperson License, PA Association of Realtors, Python Certificate from Udemy
Languages and Technologies: HTML/CSS, C++, Java, Python, JavaScript, Typescript, R, MATLab, Mathematica, React, Redux, Express, SQL and NoSQL, Bootstrap, React Testing Library, Selenium, Puppeteer, Electron, Docker, Jinja, Flask, AWS
The Other Type of Languages: Mandarin, Chinese and English
Activities: Volunteering for Bethesda Project, Intramural Basketball, Short Term Missions
Interests: Building Computers, Mechanical Keyboards, Snowboarding, Sports, Technology, Reading, Running