

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 Jest, 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.

Real Estate Salesperson

Philadelphia, PA

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.)

Application Developer, OEM Development Team

Tianhe, Guangzhou, China

June 2018 – August 2018

- Debugged and reprogrammed 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

Shift Manager

Lansdale, PA

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

Teaching Assistant/Tutor

Villanova, PA

January 2017 – May 2019

PROFESSIONAL DEVELOPMENT & EDUCATION

Codesmith

Advanced Residency for Software Engineering

Virtual

April 2023 – July 2023

Villanova University

Master of Science in Electrical Engineering

Villanova, PA

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

Bachelor of Arts in Applied Mathematics

St. Davids, PA

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