KYLE FAN

kylemichaelfan@gmail.com | (415) 218-2355 | linkedin.com/in/kylemichaelfan | github.com/kylemfan

EDUCATION

California Polytechnic State University (SLO)   **Sep. 2021 – Present**
Bachelor of Science, Computer Science

RELEVANT COURSEWORK

Database Systems, Systems Programming, Data Structures & Algorithms, Object Oriented Programming

TOOLS & TECHNOLOGIES

Wireshark, tcpdump, nmap, Unix CLI, Metasploit, SQLMap, Burp Suite, Snort,
PostgreSQL, C, Javascript, Python, FastAPI, HTML/CSS, Java

PROJECTS/ACTIVITIES

Paper Trading API | Python, FastAPI, bcrypt, PostgreSQL, Supabase, Render
Built and secured a collaborative paper trading API project

- Collaborated with teammates to design and document API endpoint workflows
- Implemented FastAPI endpoints for placing buy/sell orders, fetching user portfolios, and tracking transaction history
- Designed and normalized PostgreSQL schema modeling users, sessions, portfolios, and trades
- Developed business logic for order execution, watchlist & portfolio creation, and profit/loss computation
- Enhanced concurrency safety and database durability by configuring endpoint specific isolation levels
- Engineered a secure authentication system by hashing user credentials with bcrypt-salted hashes and managing UUID4 session tokens through database-backed validation
- Secured API from SQL injection through input sanitization with SQLAlchemy's bound parameters

TryHackMe | Cybersecurity Training Platform
- Ranked in top 5% of users (Username: kmf) – https://tryhackme.com/p/kmf
- Completed 70+ rooms covering Linux CLI, network enumeration, privilege escalation, and web exploitation
- Practiced security techniques through hands-on simulations and theory based modules

WORK EXPERIENCE

Sports Basement | Customer Support Associate   **Nov. 2023 – Jan. 2025**
- Delivered responsive customer support in a fast paced retail environment
- Collaborated across departments to resolve customer requests and ensure smooth operations
- Maintained attention to detail while processing transactions and tracking inventory

CERTIFICATIONS

Google Cybersecurity Professional Certificate   **Apr. 2024**
TryHackMe Security Analyst Level 1 (SAL1)   In progress, expected Nov. 2025