KOBEY PABELLAN

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Education

University of California, Merced   **Aug 2020 − May 2024**
Bachelor of Science in Computer Science and Engineering   *Merced, CA*
- GPA: 3.36
- Dean's Honor List Fall 2020; Chancellor's Honor List Spring 2021

Experience

Sweep Energy   **Aug 2023 − Dec 2023**
Software Engineering Intern   *Merced, CA*
- Built a program using the OpenAI API to extract and analyze information from PDFs, allowing users to query documents for answers.
- Collaborated with a team and the client to ensure the application met expectations and delivered the required functionality.
- Optimized API usage to reduce costs while delivering accurate results and improving access to key information, saving users time compared to manual document review.

University of California, Merced   **Feb 2023 − May 2024**
Student Technology Consultant - IT Security   *Merced, CA*
- Held a student position with the IT Security department, assisting in monitoring and analyzing logs, helping maintain a strong security posture, resolving issues for students and staff, and addressing potential threats.
- Investigated suspicious IPs and scanned systems for potential vulnerabilities, contributing to the identification and reduction of security risks.
- Analyzed system logs to detect unusual activity, supporting timely and effective incident response.

Self-Employed   **Aug 2020 − May 2024**
Entrepreneur   *Merced, CA*
- Achieved revenue growth through strategic marketing and customer communication in retail arbitrage.
- Created automation tools to enhance operational efficiency and maintain a competitive edge.
- Generated over $50,000 in revenue to support college expenses through entrepreneurial endeavors.

Projects

Philanthropy Week Web Application | *React, Next.js, Tailwind CSS*
- Developed a web application for a campus-wide philanthropy week focused on cancer research fundraising, enhancing visibility and participation among competing organizations.
- Attracted over 500 active users from 7 campus organizations, facilitating progress tracking, event participation, and fundraising contributions.
- Generated over $7,000 in donations for cancer research, demonstrating the platform's impact on community involvement and philanthropy.

Full-Stack Tic-Tac-Toe Game | *React, Next.js, Node.js, WebSockets, MongoDB*
- Developed a real-time, full-stack Tic-Tac-Toe game where users can play, chat, and track game state via WebSockets.
- Implemented secure authentication, hashed passwords, and session validation to protect sensitive routes.
- Built a seamless API for user management, game data, and leaderboard updates, ensuring smooth interaction across the application.

Port and Vulnerability Scanner | *Python, Nmap*
- Developed a network scanner using Nmap to identify open ports and detect vulnerabilities in target systems.
- Implemented automated reporting with timestamped summaries and saved results to files for later analysis.

Technologies and Languages

Languages: C, C++, Python, Javascript, Go, HTML/CSS
Technologies: React, Node.js, Next.js, Tailwind CSS, Flask, Selenium, Git, Docker, MySQL, MongoDB, Nmap