Kaifan Yu

kaifanyu • Irvine, CA • kaifany1@uci.edu • (707)-328-9672 • www.kaifany.com

EDUCATION

University of California, Irvine **Irvine, CA**
B.S. in Computer Science with a Specialization in Networks. GPA: 3.8 September 2022 – Present

Santa Rosa Junior College **Santa Rosa, CA**
A.S. Computer Science; A.S. Math. GPA: 3.8 August 2019 – May 2022
Graduated with Dean's Highest Honors

TECHNICAL SKILLS

Programming: C++, C, C#, Python, HTML, CSS, JS, TS, Kotlin, SvelteKit, React **Language:** English, Mandarin, Japanese
Cybersecurity: Kali Linux, Penetration Testing, Threat Modeling, Risk Assessment, Vulnerability Scanning, Subnetting, Encryption

PROFESSIONAL EXPERIENCE

SECURITY INTERN (2021 – 2023) **Marin, CA**
Information Services and Technology – County of Marin December 2021– July 2023

- Responsible for assessing security risks and implementing security controls in a team environment for the enterprise to ensure County assets are protected against unauthorized access or theft.
- Authored a comprehensive, 20-page security handbook, educating 2,400 county employees on contemporary cybersecurity threats and preventive tactics.
- Conducted research and developed educational materials for county employees on cybersecurity topics including SQL Injection; Cross Site Scripting; Cross-site Forgery; Social Engineering; Data Breaches; Threat Modeling & Hunting.

SOFTWARE DEVELOPER INTERN (2023) **Santa Rosa, CA**
Netpropriate June 2023– Present

- Developed web scraper using Python and Scrapy, gathering over 10 million data entries to support an application that protects children from inappropriate Internet content.
- Automated CSV file creation with Python that streamlined data processing tasks and enhanced efficiency, while also leveraging data-science techniques to generate logs and structured data for future analysis.
- Oversaw data management, ensuring seamless data uploads and maintenance in a PostgreSQL environment.

FULLSTACK WEB DEVELOPER (2022) **Santa Rosa, CA**
Sophie's Massage Therapy November 2021 – December 2021

- Developed a professional website for professional massage therapist using HTML/CSS, Typescript, and Sveltekit that increased customer traffic by over 60%.
- Responsible for creating the website's design and layout, crafting each web page to ensure a polished and user-friendly online presence while also implementing robust security measures using SST and AWS.

STEM TUTOR (2021 – 2022) **Santa Rosa, CA**
Santa Rosa Junior College August 2021 – February 2022

- Instructed collegiate students in advanced computer science disciplines, encompassing courses such as "Programming Concepts C++" and "Introduction to Java."
- Personalized tutoring approach, catering to each student's unique learning needs and pace.

STEAM INSTRUCTOR / MENTOR (2023) **Santa Ana, CA**
Dreams For Schools August 2023 – Present

- Directed afterschool programs, demystifying STEM concepts for K-12 students using innovative tools like Scratch, AppJam+, and Sphero.
- Immersed elementary students in the Engineering Design Process via hands-on engineering and electronics projects.

PROJECTS

Security Camera: Devised a Raspberry Pi-based home security camera leveraging OpenCV for precise human detection, integrated with cloud storage for real-time video updates.
Vulnerability Scanner: Implemented Nessus on Raspberry Pi to scrutinize home networks and unsecured servers, pinpointing vulnerabilities and enhancing security measures.
CySafe: HackDavis 2023 Award-winning project developed using Arduino Uno and Raspberry Pi. Addressed cycling safety with features like OpenCV car tracking system, additional brake and blinker lights, and an advanced crash detection and alert system.
Discord Bot: Crafted a versatile bot with C# libraries, capable of fetching data via APIs and offering over 30 games and features.
Keylogger: Devised a Python keylogger, capturing keystrokes and transmitting them securely to a cloud server.
Journaling App: Crafted mobile application in Kotlin, encouraging users in daily writing. Upon sharing, users gain exclusive access to journals within their chosen friend circles. Integrated Firebase for secure authentication and data storage of journal entries.