

# Kaifan Yu

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## EDUCATION

### University of California, Irvine

Majoring in B.S. Computer Science, Specialization in Networks. GPA 3.9

Irvine, CA

September 2022 – Present

### Santa Rosa Junior College

A.S. Computer Science; A.S. Math. GPA 3.76

Graduated with Dean's Highest Honors

Santa Rosa, CA

August 2019 – May 2022

## TECHNICAL SKILLS

**Cybersecurity:** Linux, Penetration Testing, Threat Modeling, Risk Assessment, Vulnerability Scanning, Subnetting

**Programming:** C#, C++, Python, HTML, CSS, JS, PowerShell, Kotlin      **Language:** English, Mandarin, Japanese

## PROFESSIONAL EXPERIENCE

### SECURITY INTERN

Marin, CA

Information Services and Technology – County of Marin

December 2021– July 2023

- Responsible for assessing security risks and implementing security controls for the enterprise to ensure County assets are protected against unauthorized access or theft.
- Designed and published a security handbook informing cybersecurity related threats and suggested prevention methods for countywide employees.
- 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

### SOFTWARE DEVELOPER INTERN

Santa Rosa, CA

Netproprate

June 2023– September 2023

- Developed a robust and fully automated web scraping tool using Python and Scrapy, to support an application that protects children from inappropriate Internet content, featuring error prevention mechanisms, automatic URL detection, and continuous and real-time web data scraping, ensuring up-to-date information.
- Automated CSV file creation with Python, streamlining data processing tasks and enhancing efficiency, while also leveraging data-science techniques to generate logs and structured data for future analysis.
- Contributed to data management by successfully uploading and maintaining data in PostgreSQL server.

### FULLSTACK WEB DEVELOPER

Santa Rosa, CA

Sophie's Massage Therapy

November 2021 – December 2021

- Developed professional website for professional massage therapist using HTML/CSS, JavaScript, and React.
- 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 AWS and SSL.
- Allows customers to review appointment scheduling, provided services, and extra information about the establishment.

### STEM TUTOR

Santa Rosa, CA

Santa Rosa Junior College

August 2021 – February 2022

- Tutor students in various levels of mathematics and computer science including Calculus I, II, and III, Programming Concepts C++, and Introduction to Java.
- Explain concepts in easy-to-understand language tailored specifically for each student.

### STEAM INSTRUCTOR/MENTOR

Santa Ana, CA

Dreams For Schools

August 2023 – Present

- Instructor for afterschool class program focusing on STEM topics, leveraging educational tools such as Scratch, AppJam+, and Sphero to simplify complex programming concepts to K-12<sup>th</sup> grade students.
- Introducing elementary grade students to the Engineering Design Process through hands-on engineering and electronics projects.

## PROJECTS

**Security Camera:** Designed Raspberry Pi to create a home/spy security camera. Fully utilized Open CV and AI human detection to send smart alert whenever presence is detected with updated cloud storage of video footage.

**Discord Bot:** Program using C# libraries and allows users to fetch data using APIs alongside 30+ games and features.

**Vulnerability Scanner:** Installed Nessus on Raspberry Pi to scan for home network and custom unsecured servers to identify potential vulnerabilities and proactively implement remediation measures, enhancing network security.