

KAIFAN YU

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Education

University of California, Irvine

Bachelor of Science in Computer Science GPA: 3.8

Sep. 2022 – June 2024

Irvine, CA

Santa Rosa Junior College

A.S. Computer Science; A.S. Math. GPA: 3.8

Sep. 2019 – June 2022

Santa Rosa, CA

Graduated with Dean's Highest Honors

Relevant Coursework

- Data Structures
- Principles Operating SYS
- Artificial Intelligence
- Algorithms
- Computer Security
- Database Management
- Embedded Programming
- Computer Networks

Technical Skills

Cybersecurity: Active Directory, Penetration Testing, Threat Modeling, Risk Assessment, Vulnerability Scanning

Programming: C++, C, C#, Python, Java, Bash, Powershell, Kotlin

Languages: English, Chinese, Japanese

Experience

Software Engineer Intern

June 2023 – Oct. 2023

Netproprate

Santa Rosa, CA

- 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.

Security Intern

Dec. 2021 – June 2023

County of Marin

San Rafael, CA

- 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 topics including:
 - SQL Injection - Cross Site Scripting- Cross-site Forgery - Social Engineering - Data Breaches

STEM Tutor

Aug. 2021 – Feb. 2022

Santa Rosa Junior College

Santa Rosa, CA

- 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.

Projects

Vulnerability Scanner | *Raspberry Pi, Nessus*

June 2023

- Utilized Raspberry Pi to deploy Nessus, conducting assessments of home networks and unsecured servers.
- Identified and analyzed potential vulnerabilities, allowing for the implementation of robust security measures.

Keylogger | *Python, Raspberry Pi, Nextcloud*

March 2023

- Developed a Python keylogger capable of capturing keystrokes and securely transmitting them to a cloud server.
- Demonstrated a comprehensive understanding of keylogging techniques and secure data transmission protocols.

AI Security Camera | *Python, OpenCV, Nextcloud, Raspberry Pi*

March 2021

- Developed a Raspberry Pi-based home security camera system with precise human detection using OpenCV.
- Utilized Nextcloud for hosting and accessing alongside automated deletion system to retain relevant footage.

Honors / Awards

HackDavis 2023 Winner: ”Best Hack for Local-Global Good”

May 2023

CySafe: Bike Safety System

Devpost

- Devised and prototyped a bicycle helmet car detection system using OpenCV and Raspberry Pi. Successfully demonstrated the system on an operational bicycle.
- Pioneered a crash detection mechanism that promptly alerted emergency services via text message when triggered by a vibration sensor.