KAIFAN YU

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Education

University of California, Irvine | **June 2024**
B.S. Computer Science, Network Specialization — GPA: 3.8 | *Irvine, CA*

Relevant Coursework

- Data Structures
- Network Security
- Embedded Programming
- Algorithms Analysis
- Artificial Intelligence
- Data Management
- Operating Systems
- System Design

Technical Skills

Programming: C++, C, C#, Python, Java, HTML/CSS, Kotlin   **Languages**: English, Chinese, Japanese

Experience

Software Engineer Intern | **June 2023 – Present**
Netpropriate | *Santa Rosa, CA*
- Leveraged Scrapy and Playwright to develop a Python web scraper, gathering data hashes to support agent application.
- Converted over 10 million scraped hashes into CSV for efficient data storage in PostgreSQL.

Information 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
- Authored a 20-page security handbook, educating 2,400 county employees on cybersecurity threats and 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, Threat Modeling

STEM Instructor / Mentor | **Aug. 2023 – Present**
Dreams for Schools | *Santa Ana, CA*
- Co-Instructed hands-on Engineering programs to K-8 students, enhancing leadership and instructional skills.

Full Stack Web Developer | **Oct. 2021 – Dec. 2021**
Sophie's Massage | *Santa Rosa, CA*
- Responsible for creating the website design using Svelte and AWS, increasing customer traffic by over 60%.
- Managed all social media profiles on Yelp, Google, and Facebook, further enhancing publicity and sales.

STEM Tutor | **Aug. 2021 – Feb. 2022**
Santa Rosa Junior College | *Santa Rosa, CA*
- Conducted private tutoring that catered to each student's unique learning needs and pace.
- Explained complex programming concepts in simple terms to students, improving communication of technical ideas.

Projects

Journal Mobile App | *Kotlin, Firebase, Android Studio, GitHub* | **Sept. 2023**
- Collaborated to design Android app to promote daily writing among users and friend groups.
- Integrated Firebase for secure authentication, user account management, and journal storage.

Shell Program | *C* | **Sept. 2023**
- Designed a functional shell program capable of managing multiple background / foreground processes.
- Efficiently implemented I/O redirection and proper signal handling.

Embedded Music Player | *C++, Microchip Studio, ATMEGA32* | **March 2023**
- Programmed micro-controller incorporating a keypad, speaker, LED display
- Features include selective song playback, record and play custom notes, title displayed to LED screen

AI Security Camera | *Python, OpenCV, Nextcloud, Raspberry Pi* | **July 2022**
- Developed an advanced home security camera system featuring AI human detection.
- Utilized Nextcloud for secure hosting, enabling real-time access to live video feeds and archived footage.

Discord Bot | *C#, API, Raspberry Pi* | **June 2021**
- Engineered bot with API data fetching capabilities and over 20 interactive mini-games.
- Deployed on private Raspberry Pi server, implementing security configurations to and 24/7 up time.

Awards

HackDavis 2023 Winner: "Best Hack for Local-Global Good" | **May 2023**
CySafe: Bike Safety System | *Devpost*
- Competed in a team of 2 and secured victory against over 750 contestants.
- Prototyped a bicycle helmet with car detection and alert system using OpenCV and Raspberry Pi.
- Pioneered crash detection mechanism that promptly alerted emergency contacts when triggered by a vibration sensor.