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<https://rachel-ayaka-portfolio.vercel.app/>

# Rachel Ayaka Lin (Active Secret Security Clearance)

## Education

Sept 2019 – Mar 2023 **Bachelor of Science, Mathematics-Computer Science**, University of California, San Diego, GPA 3.5

## Work Experience

- Dec 2023 – Present **Software Engineer**, NIWC, San Diego, CA (Next.js, Django Rest Framework, AWS, Docker, Nginx, Material UI)
- Developed a full-stack LiDAR database web app using agile practices for efficient project management
  - Containerized the app using Docker and implemented a CI Pipeline from GitLab for AWS deployment
  - Reduced LiDAR data upload, search, and sharing time by 1 hour per operation for thousands of datasets
  - Designed a modern, user-friendly UI, focusing on intuitive navigation and seamless user experience
- June 2022 – Sep 2022 **Software Developer Intern**, Alpha Fiber, San Diego, CA (Python, OpenCV, MediaPipe, Numpy)
- Interned at a biotech company that develops a real-time concussion detection tool using computer vision
  - Calibrated cameras to define real-world coordinates and detect over 468 landmark points on human body
  - Calculated the velocity, acceleration, and force on a person's head in real-time using MediaPipe
- July 2021 – Aug 2021 **Summer Intern**, Ernst & Young (EY), Tamuning, Guam
- Participated in a rotational summer program, exploring different areas of technology consulting and tax
  - Assessed clients on current business practices to better understand areas of technological improvement

## Projects

- Jan 2025 – Present **JiuJitsu Camp E-Commerce Web**, [Link](#) (Next.js, Typescript, PostgreSQL, GitHub, SendGrid, Material UI, Vercel)
- Developed a responsive full-stack web app for a startup, focusing on clean UI and mobile-friendly design
  - Integrated Supabase for data management, organizing purchase orders, customers, and subscriptions
  - Implemented PayPal for secure payment and SendGrid for confirmation email and user notifications
- Aug 2023 – Present **Full Stack Salon Appointment Website**, [Link](#) (MongoDB, Express.js, React.js, Vite, Node.js, Vercel)
- Built a responsive salon website using MERN stack for clients to view info and book appointments
  - Implemented user authentication and account, client, and services management features
  - Created an administrative dashboard for a salon owner to view and manage all appointments and clients
  - Deployed full stack on Vercel to integrate real-time booking functionality
- June 2022 – Sep 2022 **Computer Vision Gym Count**, (Python, OpenCV, MediaPipe, NumPy)
- Programmed a camera to detect over 543 landmark points on the face, body, and both hands
  - Calculated angles by extracting coordinates from three joints to count repetitions of a specified exercise
  - Designed to print the number of repetitions of an exercise on the camera screen in real-time

## Extra-Curricular

- June 2022 – June 2023 **Social Chair**, Institute of Electrical and Electronics Engineers (IEEE) - Eta Kappa Nu (HKN) Honor Society
- Organized and hosted weekly social networking events for 100+ HKN inductees, members, and alumni
  - Discussed twice a week with 6 other officers about future events for student career and social benefits
  - Planned networking and career fair with companies to build connections and professional skills

## Technical Skills and Hobbies

- Languages
  - Python, C, C++, JavaScript, TypeScript, Java, Assembly, HTML, R
- Languages
  - Fluent in Japanese and English, proficient in Mandarin
- Tools
  - AWS, MongoDB, Express.js, Node.js, Django, DRF, React, OpenCV, Linux, Git, GitLab, MediaPipe, Docker
- Hobbies
  - Tennis, swimming, cooking, baking, crocheting

## Achievements

- Sep 2016 – Apr 2019 **President**, Junior Achievement Company (sponsored by Bank of Hawaii), Upper Tumon, Guam
- Created a start-up business that transformed plastic waste into a reusable multipurpose bag and mat
  - Led a team of 20 students to compete and win the Best Company of the Year against 10 other companies
  - Represented Guam at the International Asia-Pacific JA Competition held in Beijing, China
  - Invited by Senator Lee to testify at the legislature for Bill 268-34 to limit the use of plastic waste
  - Awarded the Best President, Company, Finance, and Product of the Year