


# Rachel Lin

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## Education

Sept 2019 –  
Mar 2023

**Bachelor of Science, Mathematics-Computer Science**, University of California, San Diego

## Work Experience

Dec 2023 –  
Present

**Software Engineer**, *NIWC*, San Diego, CA (AWS, Next.js, Django Rest Framework, Material UI)

- Developed a full-stack LiDAR database web app using agile practices, enabling broader data access
- Saved thousands of hours streamlining the upload, search, and sharing process across the Navy
- Containerized the app using Docker and implemented a CI/CD Pipeline from GitLab to AWS for deployment

June 2022 –  
Sep 2022

**Software Developer Intern**, *Alpha Fiber*, San Diego, CA (Python, OpenCV, MediaPipe)

- 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
- Analyzed data to detect human concussions in real time to identify serious injuries earlier

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
- Managed and prepared financial, tax, and business activity statements to file clients' tax documents

## Projects

Jan 2025 –  
Present

**Portfolio**, [Link](#) (AWS, Next.js, Typescript, Django, Django Rest Framework, GitHub, Material UI)

- Developed and deployed a website to showcase projects, skills, experience, and personal background
- Implemented a secure backend to store project details with front-end access to add, delete, and edit
- Designed to track career progression, enhancing personal branding and visualizing skills and growth

Aug 2023 –  
Nov 2023

**Salon Appointment Website**, (MySQL, JavaScript, React, Spring JDBC, Java, Spring MVC, Spring Boot)

- Built a to enable customers to book appointments and view appointment details
- Integrated MySQL for efficient management of client data, appointments, schedules, and services
- Implemented user-centered design with engaging UI to increase engagement for the business

June 2022 –  
Sep  
2022

**AI 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

- Organize and host weekly social networking events for 100+ HKN inductees, members, and alumni
- Discuss twice a week with 6 teammates about future events for student career and social benefits
- Plan networking and career fair with companies to build connections and professional skills

## Technical Skills and Hobbies

Languages  
Languages  
Tools  
Hobbies

- Python, C, C++, JavaScript, Typescript, Java, Assembly, HTML, R
- Fluent in Japanese and English, proficient in Mandarin
- AWS, Django, Django Rest Framework, OpenCV, Linux, Git, GitHub, MediaPipe, Nextjs, Material UI
- 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 against 10 other companies to win the Best Company of the Year
- 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