

Justin Yee

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EXPERIENCE

Software Engineer Intern

Jun 2025 – Present

Bloom (Startup)

- Collaborated directly with the founding team in a fast-paced startup environment, driving end-to-end product development and strategy
- Implemented AI-powered player detection system to automatically track events attended
- Built intelligent email customization feature using AI prompts to personalize messaging
- Owned full-stack implementation of email-sending feature, integrating OAuth-based Gmail delivery and rich-text editor

AI Software Developer

Dec 2023 – Jun 2024

UCR RoboSub

- Developed computer vision algorithms using OpenCV for autonomous underwater vehicle navigation
- Utilized OpenCV for detecting parallel and red lines to enhance vehicle navigation and obstacle avoidance
- Performed video and image processing tasks, including real-time video analysis and frame-by-frame processing
- Implemented corner and edge detection algorithms to identify and track key features in underwater environments

DevOps/Software Engineering Intern

Jun 2023 – Sep 2023

Quantum Signal AI, LLC

- Streamlined workflow efficiency by automating the generation of bug tracking issue notes upon SVN repository commits, improving project tracking.
- Automated hard drive file cleaning process by comparing a hard drive's contents to a MySQL database
- Gained comprehensive knowledge of the Software Development lifecycle, successfully delivering projects from inception through development, testing, and documentation.

Database Specialist

Jul 2021 – Present

Hawk Ridge Systems

- Queried and analyzed 10,000+ lead records monthly from Marketo using Postman
- Streamlined 15+ workflows in Monday.com and optimized lead management with Salesforce Flow automation
- Implemented Marketo automation tracking 5,000+ monthly video plays and website visits

User Interface Developer

Jul 2022 – Jun 2023

UCR SolarCar

- Collaborating in weekly meetings to give updates on progress, give feedback on completed tasks, and discuss ideas for the Solar Car dashboard.
- Load data from InfluxDB and visualize it on Grafana.
- Designed, rescaled, and implemented different icons and labels for the UI using QtCreator
- Contributed to the design and implementation of the Solarcar website and ensured mobile responsiveness.

EDUCATION

BS+MS, Computer Science

Sep 2021 – Dec 2025

University of California, Riverside

Relevant Coursework: AI, Machine Learning, NLP, Computer Vision, Data Structures and Algorithms

SKILLS

AI/ML: OpenCV, Computer Vision, Machine Learning, Image Processing, Pattern Recognition, AI prompting, detection, and customization

Programming: Python, TypeScript, React.js, Node.js, C++, JavaScript, SQL

Tools: Docker, Git, Postman, InfluxDB, Grafana, Supabase, Jenkins, Subversion, Marketo, Salesforce