

Ayush Jain

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WORK EXPERIENCE

ASSA ABLOY — Lake Forest, CA

Jun 2024–Sept 2024, Jun 2025–Present

Mobile Developer Intern

- Manufactured and presented PoC, multi-stage design, and functional test application for standalone Wear OS app, allowing secure two-factor authentication and critical access features with integration for various Kwikset locks
- Created custom Kotlin scripts and classes to build updated dataflows for various Kwikset mobile applications, improving the OTAU upgrade speed for Aura, Halo and Kwikset locks by 27%%
- Rectified pain points in user experience for native Android app by enhancing Biometric login features
- Created high-level design documents with Figma to outline a 240+ node dataflow map, showcasing a design structure of application navigation architecture
- Completed eight feature introductions on the UNITE Multifamily mobile application platform
- Established user journey and startup benchmarking for the UNITE and HALO 3.0 mobile projects, allowing for more efficient app performance by 32%

The EyeD Project — Irvine, CA

Jan 2023 – Jun 2025

Lead Researcher

- Led a 24-person team to implement and publish a responsive Android Application that utilizes a TensorFlow Deep Learning model to analyze live images captured on mobile devices
- Built an eyedrop bottle identifier by labeling 15,000 images to create a dataset in order to train YOLO object detection with Label Studio
- Deployed a local server integration to store JSON packets of critical medical data in order to communicate with mobile devices
- Initialized a Roboflow server with custom dataset and trained model to respond for real-time object detection result calls in mobile application

PreSearch — Irvine, CA

Jan–Mar 2024, Apr–Jun 2025

Front-End Development Intern

- Developed 12 dynamic landing, profile, and applicant pages integrating custom authentication features with Google OAuth using JavaScript, enhancing user experience and security.
- Engineered data synchronization by implementing 30+ POST and GET requests for user data, streamlining workflow, ensuring efficient communication between front-end and back-end systems.
- Utilized Heroku to deploy and manage web applications, ensuring scalability and accessibility.
- Created 15+ wireframes and hi-fidelity Figma mockups for website pages, showcasing a keen eye for design and usability, and curated an extensive custom color palette to enhance brand identity.

PROJECTS

The Ojos Project

Jan 2024 – Jun 2025

Full-Stack Developer

- Developed interactive front-end components for *Iris* using React; implemented asynchronous functions, caching, and memory management to enhance application responsiveness and user experience.
- Engineered back-end functionalities with Tauri in Rust, designing data structures and commands to support AI features, including a locally hosted LLaMA LLM integrated into embedded hardware systems.
- Designed intuitive UI/UX layouts and custom icons for the front end using Figma, ensuring a seamless and visually appealing user experience.

EDUCATION

University of California Irvine — Irvine, CA

September 2021 – June 2025

B.S in Informatics, Specialization in Health Informatics

GPA: 3.81 | Dean's Honor List: Fall 2022–Spring 2025

SKILLS

Programming Languages: Java, Python, Kotlin, Rust, HTML/CSS, JavaScript, Typescript, Swift, SQL
Frameworks / Tools: Git/GitHub, Android Studio, Google Firebase, TensorFlow, Roboflow, Label Studio, Burp Suite, Angular, React, Ionic, Spring Boot, Figma
Platforms: JIRA, BitBucket, Confluence, Trello, Amazon S3, Microsoft Suite