

Ayush Jain

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EDUCATION

University of California Irvine — Irvine, CA

September 2021 – June 2025

B.S in Informatics, Specialization in Health Informatics

GPA: 3.58 | **Dean's Honor List:** Fall 2022 – Spring 2024

Relevant Coursework: Human Computer Interactions, Programming with Software Libraries in Python, Advanced Programming in Java, Information Retrieval, User Interaction Software, Boolean Logic and Discrete Structures, Organizational Information Systems, Social Analysis of Computing

WORK EXPERIENCE

UCI Biomedical Sciences — Irvine, CA

January 2023 – Present

Lead Researcher

- Led a 17-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

ASSA ABLOY — Lake Forest, CA

June 2024 – September 2024

Mobile Engineering Intern

- Manufactured POC, design and code for standalone Wear OS app, allowing secure two-factor authentication and critical access features with integration for various locks
- Created custom Kotlin scripts and classes to build updated dataflows for various Kwikset mobile applications, improving the upgrade process for Aura, Halo and Kwikset locks by 30%
- 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

PreSearch — Irvine, CA

January 2024 – March 2024

Front-End Development Intern

- Developed 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 POST and GET requests for user data, streamlining workflow and ensuring efficient communication between front-end and back-end systems.
- Utilized Heroku to deploy and manage web applications, ensuring scalability and accessibility.
- Created 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

INF 141 Search Engine Project

November 2023 – December 2023

Developer

- Wrote a Web UI search engine from the ground up that is capable of handling tens of thousands of documents or Web pages, under harsh operational constraints and having a query response time under 300ms.
- Implemented term/inverse document frequency weighting mechanisms to refine search results

SKILLS

- Programming Languages: Java, Python, Kotlin, HTML/CSS, JavaScript, Typescript, SQL (sqlite3)
- Frameworks and Tools: Git/GitHub, Android Studio, Google Firebase, TensorFlow, Roboflow, Label Studio, Burp Suite, Angular, React, Ionic, Figma