

# Ayush Jain

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## EDUCATION

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**University of California Irvine** — Irvine, CA

September 2021 – June 2025

*B.S in Informatics, Specialization in Health Informatics*

**GPA: 3.56 | 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

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**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.

**Biomedical Sciences** — Irvine, CA

January 2023 – Present

*Lead Researcher*

- Leading a 7-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
- Building 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

## PROJECTS

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**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

**Geolocation-Based Tracking App**

March 2022

*Lead Programmer*

- Spearheaded the development of a robust Android application, akin to Life360, emphasizing real-time location tracking and authentication functionality
- Enhanced communication with the Google Maps API, enhancing the application's responsiveness and reducing latency, with over 30+ calls/hour
- Engineered secure storage within Google Firebase, fortifying the Android application against potential threats and providing responsive access to user data

## SKILLS

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- 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