

Bareera Gulraiz

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SUMMARY

Software-focused Informatics student with experience in full-stack development, data pipelines, and biomedical image processing. Strong in Python, SQL, and modern web frameworks, with a track record of building scalable systems and improving performance in data-intensive environments.

EDUCATION

University of California, Irvine

Expected Grad: December 2026

Bachelor of Science in Informatics - Human Computer Interaction

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Computer Networks, Information Retrieval, Intermediate Python, C++ Programming, Statistics

TECHNICAL SKILLS

Languages: Python, C++, Java, SQL, JavaScript, R

Frameworks & Libraries: Flask, React.js, Angular, OpenCV, Pandas, NumPy

Databases & Tools: PostgreSQL, Git, Excel

Concepts: REST APIs, Data Pipelines, Automation, Object Detection

WORK EXPERIENCE

EdgeLab, UC Irvine

Irvine, California

Software Engineering Intern - Image Processing and Automation

February 2024 - Present

- Designed and maintained **scalable data pipelines** to support research operations, improving accessibility and reliability of analytical workflows.
- Developed automated validation and quality-check processes to identify data inconsistencies and reduce operational risk.
- Built modular data processing components using Python, NumPy, and OpenCV, enabling efficient analysis and repeatable workflows.
- Partnered with cross-functional stakeholders to translate research and operational requirements into technical solutions.
- Strengthened system documentation and testing practices to improve maintainability and long-term usability.

University Advancement and Alumni Relations, UC Irvine

Irvine, California

Web Engineering Student Worker

September 2024 - September 2025

- Created automation and reporting workflows that reduced manual data processing by over 15 hours per cycle.
- Designed ETL pipelines to consolidate, clean, and validate data from multiple sources to support leadership reporting.
- Developed interactive dashboards to present insights clearly to non-technical stakeholders.
- Collaborated with cross-functional teams to gather requirements, and ensure data accuracy across systems.

PROJECTS

Search Engine Data Pipeline - Python, Crawling, ETL, Indexing

- Built an end-to-end system to crawl, process, and index web data for structured analysis and reporting.
- Implemented ranking and filtering logic while maintaining performance and scalability.
- Improved system reliability through structured error handling, batching, and performance profiling.

Gym Pal Full-Stack Fitness Platform - Flask, Angular/Ionic, PostgreSQL, Gemini API

- Designed backend services and relational database schemas to support analytics and time-series reporting.
- Implemented monitoring pipelines to analyze user behavior and application performance.
- Built interactive dashboards that increased user engagement by 35%.

Spotify Browser – Angular, REST APIs, OAuth

- Developed secure API integrations using OAuth to retrieve and analyze third-party data.
- Implemented robust error handling and state management to improve application reliability.
- Delivered user-friendly visualizations for exploring music trends and usage data.