

# Rajiv Koliwad

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## Education

### University of Virginia

Bachelor of Arts in Computer Science (GPA: 3.73/4)

Expected May 2026

Charlottesville, Virginia

- **Honors:** Echols Scholar (Top 5% of undergrads)
- **Relevant Coursework:** Data Structures and Algorithms, Proofs-Based Linear Algebra, Discrete Math
- **Current Coursework:** Data Structures and Algorithms 2, Computer Systems and Organization, Linear Regression

## Pertinent Experience

### University of California San Francisco (UCSF)

AI Researcher

May 2022 – Present

San Francisco, California

- Leading research on a novel LLM-powered Clinical-Trial Matching pipeline
- Read and implemented more than 15 LLM papers in new database from the ground up. Topics included Retrieval Augmented Generation, rule-based trial matching, and LLM output grading
- Designed and maintaining SQL database to store information for 11,000 clinical trials from ClinicalTrials.gov
- Conducted exploratory data analysis on trial information to inform database creation and assess data quality
- Created novel Retrieval Augmented Generation pipeline using Langchain, Chroma Vector Database, and LLama3
- Improved model through prompt engineering, significantly enhancing the accuracy of matches
- Tested model for potential biases or inaccuracies in matching via confusion matrix
- Presented research during hour long talk during lab meeting, which prompted discussions about optimizations, partnerships in new areas of research, and implementation in real-world medical scenarios

### Business and AI Institute

Project Lead

Fall 2024 – Present

Charlottesville, Virginia

- Managing AI project (Retrieval Augmented Generation) to automate marketing strategy for eCommerce marketing agency Music Today
- Leading communication with business executives to design technical solution for their problems
- Managing project through scrum framework, orchestrated 4 technical members
- Guiding fellow computer science students on specific techniques in AI

### Forge

Project Coordinator

August 2022 - Present

Charlottesville, Virginia

- Taught classes on website design and creation to students in Charlottesville area (HTML, CSS, React)
- Led lab sections, giving one-on-one guidance and answering technical questions for students with differing technical backgrounds
- Unified largest technology club at UVA via leadership role by organizing speaker events
- Selected to be community director for UVA's official entrepreneurship hub for Spring 2024 due to work done here

## Projects

### CRUD Course Review Application | Java, Javafx, MySQL, Gradle, Hibernate, Mockito

- Created an application that allows users to sign in, find UVA courses, post new courses, and review courses posted by others
- Designed Model-View-Controller structure, ensuring SOLID design
- Represented courses as objects in Java through Hibernate
- Unit tested code via Mockito

## Technical Skills/Hobbies

**Languages:** Python, Java, SQL, C, R

**Technologies:** Langchain, ChromaDB, Git, Github, MySQL, Mockito, Gradle, Hibernate

**Hobbies:** Half Marathons, Self-taught Guitarist, 2-Time IM Soccer Champion