

# Ruslan Manoharan

## EDUCATION

**University of California, Irvine**, Donald Bren School of Information and Computer Sciences

Irvine, CA

Bachelor of Science in Computer Science, Specialization in AI/Intelligent Systems

Expected June 2024

- **GPA:** 3.5 | **Honors:** Directors' Scholarship
- **Relevant Classes:** Machine Learning, Artificial Intelligence, Data Structures, Algorithms, Software Libraries, Discrete Structures/Mathematics, Systems Organization, Software Engineering, Computational Linear Algebra, Cybersecurity, Human Computer Interactions, User Interaction Software, System Design, Probability in Computer Science

## TECHNICAL SKILLS

**Languages/Tech:** Python | C/C++ | HTML/CSS | JavaScript | TypeScript | Angular

**Interests:** Intelligent Systems, Networked Systems, Visual Computing, Algorithms, Agile-DevOps-CI/CD

## PROJECTS

**UCI ML Hackathon 2021 - "Pandemic of Lies" Project** - Co-creator

- Conducted a thorough analysis of the CovidLies dataset (6 Million+ tweets with misconceptions about Covid-19).
- Implemented Bag Of Words, logistic regression, and decision tree supervised models to detect misinforming tweets.
- Won a best project award for presentation ([https://www.ics.uci.edu/community/news/view\\_news?id=2027](https://www.ics.uci.edu/community/news/view_news?id=2027)).

**Web Search Engine** - Creator

- Wrote a search engine from the ground up in python that is capable of handling hundreds of thousands of documents or Web pages, under harsh operational constraints, and achieved a consistent query response time of under 300ms.
- Utilized inverse indexing, index merging, tf-idf scoring, and cosine similarity to optimize accuracy/relevance of results.

**Emotion Detection of Written Messages Project** - Co-creator

- Worked on a model to accurately detect the intended emotion behind a written message.
- Preprocessed data into Bag Of Words and Word Embeddings, then implemented an LSTM model to predict one of 8 possible classes, achieving a 67% testing accuracy.

## WORK/EXPERIENCE/ROLES

**Hack at UCI**

Irvine, CA

*Logistics Co-Director*

Feb 2023 - Present

*Organizing Committee Member*

April 2022 - Feb 2023

- Worked in and directed the organization of 30+ members to plan out and execute hackathons throughout the academic year, most notably being HackUCI, Orange County's largest collegiate hackathon.
- Oversaw various teams on assigned tasks such as managing organization communications, reviewing applications, hosting workshops, etc.

**Commit the Change**

Irvine, CA

*Developer, The Literacy Project*

Oct 2021 - April 2022

- Developed high-quality, sustainable, long-term software for The Literacy Project, a non-profit organization in Southern CA.
- Collaborated on a project to digitize assessment scorecards, online submissions, curation, reports, and trend metrics.
- Worked in an agile git-flow development cycle using various technologies, such as React, Bootstrap, and NodeJS.

**UCI Office of Undergraduate Admissions**

Virtual/Remote

*Non-resident Student Ambassador*

Feb 2021 - May 2021

- Led university efforts to adapt prospective student outreach into a remote format.
- Produced blog submissions and produced captivating video blog content.
- Conducted daily phone calls and conducted live chats to admitted international and domestic out-of-state freshman and transfer students to share UCI experience and answer campus-related questions.