

# Rostam Vakhshoori

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## EDUCATION

### University of California, Irvine

Expected Graduation: June 2022

Bachelor of Science in Computer Science

**GPA: 3.82/4.00**

*Relevant Coursework:* Machine Learning; Data Structures; Computer Organization; Linear Algebra; Principle in System Design;

Introduction to Software Engineering; Probability and Statistics for Computer Science

## SKILLS

- **Languages:** Python, C++, C, Swift, SQL, HTML, CSS, Visual Basic
- **Tools:** Git, Django, REST APIs, Heroku, Agile, and Microsoft Excel

## RELEVANT EXPERIENCE

### Libra

San Jose, CA

*Software Developer*

May 2020 – Present

- A Machine Learning API with over 6,000 current users and recognized by several AI industry leaders
- Part of the AI and data team optimizing dynamic model building and training techniques for neural network models
- Working on improving upon the structured data preprocessor to advance image processing techniques

## PROJECTS

### League of Legends (multiplayer online battle arena) Predictor

San Jose, CA

*Python*

June 2020 – July 2020

- Designed a bot to calculate live probability of winning a game at the first ten and fifteen minutes into a thirty-minute match
- Trained a machine learning model from 15,000 elite matches with high performance to give statistical feedback on the user's team likelihood of defeating the opponent team based on many key features of the game
- Bot detects when the user starts a match and uses the Riot API to fetch live data of every player on both teams

### CovidAlerts

San Jose, CA

*Django/Python*

June 2020 – Present

- An automated text messaging system that gives live daily updates about the number of new Covid cases in the user's local area
- Developing a webpage based on Django's framework on Heroku's server to process users' phone number and location
- Storing user information in a database managed with SQLite with text messages being sent through Twilio's API

### Adding Courses to Google Calendar

San Jose, CA

*Python*

March 2020 – April 2020

- An API service utilizing Selenium technology to securely connect with UC Irvine's course system to scrape user's study list
- Included BeautifulSoup library to parse data for Google Calendar API request to add each course with description of location and time with recurring events in the calendar
- Service creates automated browser including functionalities of dropping / adding classes from course system and choosing which user's calendar to be edited

### UCI Chatrooms

Irvine, CA

*Swift*

February 2020 – March 2020

- Worked in a team to build an iOS mobile app for students to create and join chatrooms for their courses
- Built mongo database using Parse Server to store user's information and authenticate username and password
- Scraped data directly from UCI schedule of courses for initial creation of chatrooms utilizing Alamofire and Swiftsoup libraries
- Chatrooms automatically refresh to load new messages from users and to be stored into the database

### Map Direction Calculator

San Jose, CA

*C++*

April 2020 – May 2020

- Created a program to find the shortest distance or fastest route from one location on a map to another
- Operated on an underlying graph data structure to store streets and traffic information with quick retrieval of information
- Incorporated Dijkstra's algorithm and a priority queue to calculate the shortest path along a network of roads