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 and Algorithms; 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
Software Developer   May 2020 – Present
- A Machine Learning API with over 8,000 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 key features of the game
- Built a web server using HTTP protocols that stores the model and responds to the bot's POST request containing match data
- Bot detects when the user starts a match and uses the Riot API to fetch live data of every player on both teams

Covid-19 Messaging System   San Jose, CA
Django/Python   June 2020 – Present
- An automated text messaging system that gives daily updates about the number of new Covid-19 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 Beautiful Soup 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 an agile scrum team to build an iOS mobile app for students to create and join chatrooms for their courses
- Maintained a 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