Julian Rachman

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EDUCATION

University of California, Irvine – Donald Bren School of Information & Computer Sciences   **Irvine, CA**
Bachelor of Science in Computer Science; Emphasis in Intelligent Systems   *June 2022*

WORK EXPERIENCE

Pollenly   **Santa Monica, CA**
Data Science Engineer   *June 2019 – Present*
- Develop Instagram brand partner scouter utilizing client-specified hashtags and geolocations and an image/video content object classification model to narrow down and calculate an engagement-to-performance index for each potential partner
- Built Instagram direct messaging automation system to send first-contact messages to prospective brand ambassadors; increased first reply rate by 15% and signup rate by 30%
- Created REST API endpoints that send an individual an email and direct message when a key performance indicator is met; helped to maintain membership retention and consistent performance for those who achieve micro-milestones

MediaHound, Inc.   **El Segundo, CA**
Data Engineer Intern   *February 2019 – June 2019*
- Identified traits for movies and TV shows by using pushshift.io Reddit API to parse related comments on subreddits and conduct data analysis to identify the links and provide better recommendations for MediaHound's personalization platform
- Utilized Cypher, Neo4j's graph query language, to create visual connected graphs of movies and television series from various big streaming services via Python-parsed JSON objects

The Aerospace Corporation   **El Segundo, CA**
Technical Intern, STARS Mission Operations Center   *June 2017 – May 2019*
- Developed Python-based instant messaging system for logistical launch operation changes using Twilio back-end API framework; utilized by over 30 members of the launch support staff
- Analyzed architectures for post-flight telemetry analysis by using frameworks from Numenta and raw telemetry data from past launches; accelerated launch frequencies for SpaceX by approximately 20%
- Contributed to paper on synthetic telemetry for abnormality detection by benchmarking different anomaly detection methods using the generated telemetry; sparked new area of research for other scientists

SELECTED INDEPENDENT PROJECTS

UniGraph
Python   *May 2019 – Present*
- Gather student and alumni employment history using LinkedIn API in order to develop an industry contact and employer network
- Identify career maps using LinkedIn profiles to provide students with a broader perspective on common and potential career paths

LeetTools
Python; React; Node.js   *March 2019 – Present*
- Design enhanced study tools and frameworks for LeetCode: the best platform to help you enhance your skills, expand your knowledge and prepare for technical interviews
- Adapt problem difficulty classifications in order to create study schedules based upon user-selected study pattern/pace, interview deadlines, and set milestones to develop technical skillset

Algorithmic Stock Options Trade Advisor
Python; JavaScript; HTML   *November 2018 – Present*
- Utilize and incorporate trading strategies, including RSI and MACD, to provide guidance for buying and selling stock options
- Implement interactive real-time display to provide users with visualizations of the data and calculations

LEADERSHIP EXPERIENCE

Lambda Phi Nu, Business Leadership Fraternity   **Irvine, CA**
Webmaster   *May 2019 – Present*
- Maintain the Lambda Phi Nu website by updating active profiles and career statistics to enhance the organization's reputation
- Collaborate with the Alumni Relations Director to create quarterly Alumni newsletters to inform chapter of ongoing initiatives

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: Proficient in Python; Familiar with C++, SQL, MongoDB, and Neo4j/Cypher; Experienced with GitHub/Bitbucket, Unix/Linux, and AWS
Activities: HackUCI (Mentor); LAHacks (Mentor); HackSC (Mentor); Science Olympiad, Inc. (Exam Writer and Supervisor); Management Information Student Society (Mentor)
Interests/Hobbies: Options and Crypto Trading, Teaching, Ice Skating, Ice Hockey, Billiards, Photography and Videography