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

MediaHound, Inc. **El Segundo, CA**
Data Engineer Intern *February 2019 – Present*
- 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
- Develop personalization platform to help video services delight users while maximizing profits through high-conversion discovery experiences and cost-saving business intelligence

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

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 multiple trading strategies, including RSI and MACD, to provide guidance to users for the buying and selling of stock options
- Implement interactive real-time display for providing users with visualizations of the data and calculations

Bananagrams Online
Python; Objective-C *July 2018 – Present*
- Digitalize a classic word game and transform it into a mobile format to provide the ability to play the game on the go for thousands of mobile users; currently beta-testing using TestFlight
- Develop simple algorithms to deal with complex game situations and unconventional moves, and utilize sockets and connective API's to enable the player-versus-player capability for enhancing the user experience

LEADERSHIP EXPERIENCE

Lambda Phi Nu, Business Leadership Fraternity **Irvine, CA**
Webmaster *May 2019 – Present*
- Update the Lambda Phi Nu website as well as working alongside the Alumni Relations Director in creating Lambda Phi Nu newsletters for Alumni

Associate Auditor *May 2019 – Present*
- Assist the Associate Educator in reviewing and auditing the curriculum as it pertains to each new pledge class of Associates

Undergraduate Business Association **Irvine, CA**
Company Relations Director *March 2019 – Present*
- Engage professionals by networking at social events and contacting them to host developmental workshops or speaking engagements for recruitment
- Proctor informational events by preparing meeting rooms and providing technical support to recruiters and students

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: Proficient in Python; Familiar with C++ and Neo4j/Cypher; Experienced with Git, Unix/Linux, iOS, and AWS
Activities: HackUCI (Mentor); LAHacks (Mentor); HackSC (Mentor); Science Olympiad, Inc. (Exam Writer and Supervisor); Management Information Student Society (Mentor)
Interests: Options and Crypto Trading; Travelling; Playing Bassoon and Trumpet; Teaching; Ice Skating