Sean Murphy

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EDUCATION

Oregon State University **Graduating Winter 2020**
Bachelor of Science in Computer Science
Oregon State University
Bachelor of Science: Biochemistry/ Computational Molecular Biology/Bioinformatics
Minor: Chemistry
Relevant Coursework: Statistical Methods I, Intro to Applied Statistics, Applied BioInformatics, Quantitative Analysis, BioChemistry, BioPhysics, Molecular Research Techniques 2 (Independent Lab), Computer Science I, Computer Science II, Data Structures, Algorithms, Introduction to Databases, Software Engineering I, Software Engineering II, Discrete Math
Certification: MediaMath Programmatic and Emerging Channels Certification

Skills

Python,Pandas, Numpy, SpaCy, Matplotlib, Bio Python, R & R Studio, Agile Software Development, Gitlab, Git, Excel, MySQL, ReactJS, HTML, JavaScript, ReactJS, C/C++, Assembly Language, AWS, Django, RESTFUL API's, AJAX Interactions, Quantitative Analysis, Applied Statistical Modeling, Research, Taking classes on: Kubernetes Clusters, Hive, Scala

PROFESSIONAL EXPERIENCE

ECarin | Bend, OR July 2019-January 2020
Software Engineering Intern
- Constructed and edited design plans for a natural language processing project that sorted through Twitter data in order to utilize an NLP based processing algorithm that ECarin utilized to generate user targeted Twitter queries for its' customers
- Fixed code blocks in order to make running times more efficient; for example condensing two for loops into a single for loop
- Created an addon utilizing JavaScript for google sheets that allowed coworkers to increase their data entry speed
- Attended weekly meetings to discuss project progress and communicated with coworkers via Slack on a daily basis
- Developed and implemented python code in order to increase the speed of an already established company algorithm

Oregon State University | Corvallis, OR September 2018 – June 2019
Molecular Wine Research Undergraduate Assistant
- Generated Bio python scripts in order to analyze genetic sequences, bonding, thermodynamics, and various gene interactions
- Assigned individual research project to identify how the dis2 gene of effects grapevine plant growth and efficiency
- Conducted primary research in order to provide research leader with pathways to move forward with regards to the project
- Presented findings through data visualization such as bar graphs, gel electrophoresis images, and scatter plot graphs
- Worked alongside a group of my peers in order to achieve weekly and monthly laboratory goals such as identifying new leads
- Participated in weekly meetings to keep team members up to date via technical overviews of different ongoing experiments
- Maintained a University distributed lab notebook full of University assets and was responsible for the it's safeguard
- Monitored freshman students within the lab during implementation of experimental design and execution of experimentation

Oregon State University | Corvallis, OR June 2018 – September 2018
Agriculture Marketing Research &Remote Communications Student Technical Assistant
- Created excel based models using primary data from surveys in order generate a visual story of data collected on Agriculture
- Conducted phone surveys focused on increasing profits within the agricultural space for partners of Oregon State University
- Curated final lab write ups, documentation of surveys conducted, and documentation of weekly goals

LEADERSHIP & EXTRACURRICULAR

OSU Finance Club | Corvallis, OR January 2017 – September 2017
- Attended weekly meetings and contributed findings on potential stocks that could see growth in the future and alpha returns
- Dedicated free time in order to progress my personal knowledge in regards to finance, and business valuation techniques

OSU Music Production Club | Corvallis, OR January 2018 – May 2018
- Contributed to weekly meetings and taught other students about music production and techniques they could use regarding Saturation, Equalization, Multiband Compression, Music Theory, Reverb Techniques and Technical Musical Arrangement

Interests

Cryptocurrency, Mountain Biking, E-Sports, Health & Nutrition, Hiking, Rock Climbing, Exercising, Coding, Skiing, Music