

# Sean Murphy

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## EDUCATION

### Oregon State University

Graduating Winter 2020

*Bachelor of Science in Computer Science*

GPA 3.71/4.00

### 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 plotgraphs
- 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