

MHEALYSSAH BUSTRIA

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EDUCATION

California State University San Marcos | GPA 3.2
Bachelor of Science in Computer Science
AUG 2015 - MAY 2021 (expected)

EXPERIENCE

Center for Research and Engagement in STEM Education (CRESE) - CSUSM

Operations Lead, APR 2019 - present

- Arrange and communicate schedules, activity plans, and other operations for a team of more than 20 employees and volunteers.
- Clarify activities by creating instructional guides.
- Increase reusability and consistency in records and forms by creating templates using *Google Drive*.
- Increase efficiency and accuracy of message-writing by developing C++ scripts to fill templates.
- Assist research efforts by organizing attendance and survey data from employees and 260+ K-12 students at 13+ Mobile Making sites per semester.

STEM Ambassador, JUN 2018 - APR 2019

- Encouraged STEM interest in underserved communities by facilitating weekly Mobile Making sessions, which bring hands-on STEM activities and supplies to various sites.

Teaching Assistant - Computer Science, CSUSM

JUL 2019 - DEC 2020

- Designed, reviewed, and refined online *Python* and C++ learning activities for 100+ college students per semester, and supported student learning by providing assistance during classes.
- Demonstrated introductory computer science concepts by creating over 15 videos using *Adobe Premiere Pro* and *YouTube Studio*.
- Automated the transformation of video transcripts to subtitle format by developing a *Python* script.
- Facilitated task management and communication among content-creators by preparing *Trello* boards for each module.
- Streamlined assignment grading by organizing spreadsheets shared among instructors.

Cashier/Server - Ritz d'Lites Boba Shop

OCT 2017 - AUG 2019

- Strove for customer satisfaction with each drink order by interacting with guests and cooperating with fellow employees.

PROJECTS

COVID-19 Data Science Analysis

Research Trainee - UCSD Summer Internship

JUN 2020 - AUG 2020

- Accessed and organized over 75,000 records of global COVID-19 patient data, then identified trends in the dataset by generating and analyzing charts using *Python's matplotlib and seaborn libraries*.
- Synchronized the project among the 4-member team by developing code in *Google Colab*, and improved readability of supporting content via *Markdown*.
- Wrote a paper to share information such as methods, results, and discussion.

Fab Friday Team Projects - CSUSM

File Classification Analysis, AUG 2020 - DEC 2020

- Helped improve datasets for machine learning by writing algorithms to determine how many lab workers agreed in their classification of plankton image files.

Service Impact Website, AUG 2018 - MAY 2019

- Highlighted the impact of CSUSM's food distribution service on food-insecure students by accessing and organizing data to generate charts, and by developing a website to display the charts and other information.

Leadership Impact Poster for CRESE

Southern California Conferences for Undergrad. Research

NOV 2019

- Compiled research results by communicating with four faculty members, then collaborated with three STEM Ambassadors to produce and present a poster that highlighted CRESE's impact on undergraduate leaders.

ACTIVITIES

Tutor - Elementary English, Math, and Spanish

SEP 2018 - present

- Assist special-needs sister with educational activities and technology skills by applying strategies to form positive and engaging learning experiences.

Developer Student Clubs CSUSM

Graphic Design Lead, JAN 2020 - DEC 2020

- Strengthened a community of student developers by producing digital assets to promote club activities.