# **ERICK ALVAREZ**

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### **EDUCATION**

**UTAH VALLEY UNIVERSITY** 

Orem, UT

Bachelor of Science

Expected May 2025

Major in Bioinformatics; Minor in Biology

Cumulative GPA: 3.56/4.0; Dean's List 2023-2024

Biology, Associate in Science

Dec 2023

### **WORK EXPERIENCE**

### **UTAH VALLEY UNIVERSITY**

Orem, UT

Supplemental Instruction Leader

Aug 2023 – Present

- Teaches a supplemental course for College Biology I covers biochemistry, energetics, cell biology, genetics, evolution
- Plans detailed sessions to facilitate student collaboration
- Collaborates closely with course professor; provides feedback to other SI leaders

## UNIVERSITY OF MARYLAND INSTITUTE FOR ADVANCED COMPUTER STUDIES

College Park, MD Jun – Aug 2024

BRiDGe REU Intern

- Data science research under Dr. Michael Cummings; funded by the NSF
- Cleaned data and performed network/statistical analyses to predict treatment outcomes at Baltimore substance-use disorder facilities; all code written in R

### **EARTHTEC ENGINEERING**

Lindon, UT

Lab Technician

May – Jul 2023

- Responsible for daily laboratory testing of construction materials (soil, concrete, asphalt, etc.)
- Utilized basic math to perform tests and organized data records

### RESEARCH EXPERIENCE

HJELMEN LAB

Aug 2024 - Present

Bioinformatics research under Dr. Carl Hjelmen on the correlation between organism complexity and genome size using insects

iGEM LAB

Jan 2024 – Present

- Synthetic biology research under Dr. Eric Domyan and Dr. Colleen Hough, engineering *Chlamydomonas reinhardtii* for nutrient removal to combat algal blooms
- Manages plasmid design, gene editing, GG assembly, transformations, and literature research of the nosZ gene
- Head of lab's community outreach and education; project to be presented at the 2024 iGEM expo in Paris, France

## **VOLUNTEER EXPERIENCE**

# S.P.A.R.K.S (Supporting Practical Achievement in Research and Knowledge in the Sciences)

Orem, UT

Vice President

Aug 2024 – Present

• Manages a STEM program preparing underrepresented/young students for grad school and the workforce through professional workshops; also responsible for administrative logistics and event organization

## THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mesa, AZ

Full-Time Representative/Social Media Specialist

Nov 2020 – Nov 2022

- 24-month representative for the LDS church; engaged in proselytizing, humanitarian aid, service, and community events
- Business admin of local Facebook page (~19k followers); managed a monthly budget (\$4k) and created ads; trained other missionaries and managed both online and community events

### NEUROSCIENCE ACADEMIC SOCIETY

Rexburg, ID

Outreach Coordinator

Sep 2018 - Apr 2019

• Coordinated teaching opportunities with local schools for BYU-Idaho; taught scientific principles to high school students

### ADDITIONAL

Technical Skills: Proficient in R, Python, SQL, BLAST; Familiar with Linux

Languages: Fluent in English and Spanish