

JOSEPH TREVINO

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EDUCATION

California Polytechnic State University

BS Computer Science *GPA: 3.66*

San Luis Obispo, CA

Sep 2019 - Dec 2021

Allan Hancock College

AS Computer Science *GPA: 3.85*

Santa Maria, CA

Sep 2016 - Jun 2019

WORK EXPERIENCE

Digital Transformation Hub, Sponsored by Amazon

Software Engineer

San Luis Obispo, CA

May 2021 - Dec 2021

- Developed and maintained a serverless API using AWS API Gateway and AWS Lambda to retrieve information stored in an AWS MySQL RDS Instance.
- Created custom parsing applications using Python and AWS Lambda to consume weather instrument data in proprietary files stored in AWS S3 with up to 1000 concurrent invocations.
- Optimized schema sort keys for a MySQL RDS instance to help reduce CPU utilization from 99% to 30%.

iFixit

Software Engineer

San Luis Obispo, CA

Sep 2020 - Dec 2020

- Developed and tested an AWS Lambda function to serve an appropriate ad located in a DynamoDB table using a browser's user agent.
- Maintained API documentation and testing suites in Postman using Javascript to verify API response payloads.
- Implemented methods and routes to support common REST events to trigger AWS Lambda functions.

AgXcel

Software Engineer

Remote

Jul 2020 - Sep 2020

- Added French and Spanish languages to production software using the i18n library in Python.
- Fixed GUI inconsistencies across the software by choosing a unified font, color palette, and spacing.
- Extracted time data from a Real Time Clock (RTC) Module DS1308 using Python SPI libraries.

RELEVANT COURSEWORK

Distributed Computing:	Analyzed modern distributed system problems and proposed solutions.
Data Mining:	Implemented algorithms/methods/techniques to solve KDD problems.
UI/UX Design:	Designed software mockups and usability testing.
Computer Security:	Researched security fundamentals and authentication practices.
Database Management Systems:	Examined Relational DBMS and Structured Query Language (SQL).

PROJECTS

QCollab AWS API Gateway, AWS DynamoDB, AWS Lambda, React, Javascript

A full-stack web application that allows users to collaborate on a music queue using Spotify or Apple Music.

FileRenamer Python

A command line application written in Python to organize your movie database. Movie files are renamed using the TMDB API.

ConvertPlaylist AWS Lambda, API Gateway, Javascript

A serverless application using Javascript that converts a Spotify playlist into an Apple Music playlist, or vice versa.