

# Jayro Alvarez

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## EDUCATION

### California State University, Fullerton

Bachelor of Science, Computer  
Science

- Aug 2015 - Dec 2019
- Major GPA: 3.3/4.0

## SKILLS

### Languages:

• C++, Python, C, HTML,  
CSS, JavaScript, SQL, Bash

### Frameworks/Technologies:

• Django, React, Flask,  
Docker, Node.js, Express.js

### Databases:

• SQLite3, PostgreSQL,  
MariaDB, MySQL

### Tools:

• Git, Github, Vim, Xcode,  
Visual Studio

### Methodologies:

• AGILE, SCRUM

## COURSEWORK

- Object-Oriented Programming
- Data Structure Concepts
- Artificial Intelligence
- Operating System Concepts
- File Structures and  
Database Systems
- Foundations of Software  
Engineering
- Algorithm Engineering
- Software Testing

## AWARDS

- Dean's List (2016, 2019)
- Certificate of Recognition:  
AppJam+ Mentor

## PROJECTS

### budgetBuddy

[Github](#) | [Live Demo](#)

Django, SQLite3, Python, HTML, CSS, JavaScript

- Budgeting tool that implements user-created projects to track expenses.
- Each user project has features to help manage progress.

### Music Microservices API

[Github](#)

Flask, SQLite3, Python, Kong, Foreman, MinIO

- Four main microservices hosted as separate applications to support: Tracks, Users, Playlists, and Descriptions API endpoints.
- Features include: database sharding for tracks, traffic load balancing via Kong, and MP3 file storage via MinIO cloud server.

### Student and Professor Database System

[Github](#)

HTML, PHP, SQL, MariaDB, Shell Server

- Database system which allows students and professors to query database containing a multitude of records.

### Tidey (Hackathon- BeachHacks 2019)

[Github](#)

React, Python, Django, SQLite3, Google Maps API

- Gets user's location and displays top nearby beaches to go cleanup. Users can post images and comments of progress on blog-like pages for each beach.

### Guitar Looper

[Github](#)

C++, Bash, arecord, aplay, ALSA (Advanced Linux Sound Architecture)

- Simulates the functionality of a "Looper" guitar pedal and can handle direct input through USB. Built on Raspberry Pi (Raspbian).

## EXPERIENCE

### Virun Nutra-BioSciences

Aug 2019 – Jan 2020

Backend Engineer (School Sponsored Industry Project)

Remote

- Development of web-based inventory management system to speed up company productivity.
- Development of algorithm to validate if purchase orders can be processed based on inventory quantities.

### Dreams for Schools

Mar 2018 – Jun 2018

Student Mentor

Yorba Linda, CA

- Taught middle school students the basics of programming through Thunkable platform.
- Mentored my group of four students through creation of mobile app while exposing them to careers in STEM.