Jayro Alvarez

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EDUCATION

California State University, Fullerton

Bachelor of Science, Computer Science
• Aug 2015 - Jan 2020
• Major GPA: 3.3/4.0

SKILLS

Languages:
• C++, Python, JavaScript, HTML, CSS, SQL, Bash
Frameworks/Technologies:
• React, Django, Firebase, Flask, Docker, Node
Databases:
• MySQL, SQLite3, MariaDB, Google Cloud Firestore
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

Real-time Multiplayer Board Game   Github | Website
React, Firebase Real-time DB, Firebase Functions, HTML, CSS, JavaScript
• Each round, random Category and Letter generated. Users race to be the first to respond. Players vote whether or not to award point.
• Users can create/join a lobby, invite friends, and start the game.
• Custom in-game real-time messaging UI.

Budgeting Web Application   Github | Live Demo
Django, SQLite3, Python, HTML, CSS, JavaScript
• Budgeting application to track individual user expenses.
• User-defined budget and categories for each budgeting project.

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.

Tidey (Hackathon- BeachHacks 2019)   Github
React, Python, Django, SQLite3, Google Maps API
• Generates blog-like page for each beach on Google Maps API.
• Users can update progress of beach cleanup on each page.

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.