

Christian Benitez

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EDUCATION

The University of Texas at Austin

Bachelor of Science, Chemical Engineering, December 2019

GPA: 3.62/4.00

SKILLS

Languages: Python 3, Java, JavaScript, HTML & CSS

Frameworks/Web Tech: Flask, Spring Boot (MVC, Hibernate, JPA, OAuth), React, Agile/Scrum, REST APIs, SOAP, PostgreSQL, Cassandra

Tech/Tools: Git, GitHub, Docker, AWS (S3, EC2, ECS)

General: Web development, Scripting, Data Structures, OOP, Excel

PROJECTS

Multiplayer Chess Webapp; Python/Flask, JavaScript

- Developed a web app for multiplayer online chess, deployed as Docker containers to AWS Beanstalk
- Integrated a PostgreSQL database to store user and match data and utilized web sockets to handle real time communication during chess games
- Developed a REST API to serve data to the frontend and to expose useful information to users

Pathfinding Visualization Webapp; JavaScript/React

- Developed an interactive web app that visualizes several different pathfinding algorithms
- Implemented 4 pathfinding algorithms which are capable of being visualized through the UI
- Created an interactive grid, on which the pathfinding algorithms can interact with user placed obstacles

City Quality of Life Dashboard; Java/Spring Boot, JavaScript/React

- Developed an application that displays cities best suited to you based selected preferences
- Developed a REST API using Spring Boot to serve city data to the frontend client

Facial Recognition Neural Network; Python/OpenCV/Keras

- Developed a facial recognition program in python that could identify my face from live video
- Trained a convolutional neural network using Keras-FaceNet to handle face recognition
- Created scripts to collect and process image data into functional datasets

Mouse and Keyboard Automation tool with GUI; Python/PySide6

- Developed a GUI that allows users to create scripts to simulate inputs for completing repetitive tasks
- The program handles creating, saving and running the scripts in a simple and easy to use interface

Lactose Removal by Enzymatic Batch Reactor

- Led a team of 4 engineering students to experiment and analyze properties of enzyme immobilization
- Designed experimental procedure on creating immobilized enzyme and setup of the batch reactor
- Held biweekly meetings to map out time sensitive goals and to check in for regular status updates

LEADERSHIP EXPERIENCE AND ACTIVITIES

Service Committee Chair, Lions Club

09/2018–05/2019

- Reached out and corresponded with charity groups in Austin in search of volunteering opportunities
- Presented volunteering events to 50 active members at weekly general meeting
- Coordinated and led the volunteering events, which entailed the handling of communication and scheduling for the volunteers and the charity groups

Tabling Director, The Austin Meal Movement

09/2017–05/2018

- Planned the expenses and goals of the organization during weekly meetings with financial committee
- Managed expenses of the organization's biweekly events
- Organized fundraisers focused on making and selling food to students, raising money for local charities