

ROGELIO AGUILAR

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EDUCATION

University of California - Merced
Bachelors of Science Computer Science and Engineering

Aug. 2016 - May 2021

WORK EXPERIENCE

ISSNAF, Backend Developer, Remote

Jan. 2021 - May 2021

- Worked with a volunteer company to develop their front-end database application, which makes it easier for their members to manage and view their database.
- Used MySQL to create queries that selected specific data, and inserted/updated new values into tables according to the users' inputs.
- Used Node.js and Express.js to create and route APIs, using the data of the MySQL queries.
- Specifically worked with developing user sign-in APIs, which created users, allowing them to login/log out, and keep track of their session with JWT tokens.

PROJECTS

Sudoku Solver

July 2021 - July 2021

- This Sudoku solver uses a backtracking algorithm to find a solution for any solvable sudoku board.
- With the backtracking algorithm for each empty box, it will try all numbers, find a number that works, repeats for each empty box, and backtracks to check if all numbers will work with every row and column.
- Users can choose to solve the sudoku board by themselves or press space, to see the backtracking algorithm complete the board.
- Used Python to create the backtracking algorithm and Pygame's Gui interface to display the board.

UEFA Champions League Statistics

Nov. 2020 - Dec. 2020

- Backend application that shows UEFA Champions League Statistics.
- Once the user selects the preferred season they can: see the standings of the whole competition, clubs that participated, club and player stats.
- Imported statistics from CSV files into an SQLite database.
- Created Tables for the statistics and made connections between tables with an Entity-relationship model.
- Created queries to output the statistics according to user inputs.
- Used Java SDK to combine the user's inputs in java with the SQLite database and queries.

Chat Application

July 2021 - Aug. 2021

- The Chat App is a real-time chat application, that enables the user to sign in with their credentials, via Google or Facebook.
- Once signed in, users can create chats, view past messages, and message other people with the help of ChatEngine.io.
- The user is able to sign in, via Google or Facebook, by using firebase's authentication system.
- Once the user is signed in, the data is stored, then sent to ChatEngine.io using react-router-dom.
- Developed the frontend and functionality with React.js.

Portfolio

Aug. 2021 - Aug. 2021

- My portfolio showcases my resume, personal projects, technologies I have worked with, and my journey of being an undergrad computer scientist.
- Developed the webpage using React.js for the functionality and Next.js to improve the interactions of the webpage.
- Styled the frontend using a javascript library called styled-components.
- Deployed to the web using Netlify hosting services.

SKILLS

TECHNICAL SKILLS: Java, JavaScript, MySQL, Node.js, React, HTML, CSS, SQLite, C++, C, MongoDB, Express.js, Next.js, Python, Firebase, API Integration, styled-components, Git

AWARDS

Innovate to Grow - Spring 2021 UC Merced

May 2021

- Team won the data track for Innovate to Grow at UC Merced.
- Competed against other teams from our Software Engineering course that worked on database applications.