

# ROGELIO AGUILAR

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## EDUCATION

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

Aug. 2016 - May 2021

## WORK EXPERIENCE

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**ISSNAF, Backend Developer, Remote**

Jan. 2021 - May 2021

- Worked with a volunteer company to develop their front-end database application.
- The application would make 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 route the specified queries into the front-end application.

## PROJECTS

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### Sudoku Solver

- 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 Gui interface to display the board.

### UEFA Champions League Statistics

- Imported statistics from Kaggle into a local SQLite database.
- Created Tables to fit the statistics and made connections between tables with an ER diagram.
- Created queries to output their statistics according to user inputs.
- Used Java SDK to combine the user inputs in java with the SQLite database and queries.
- The project consisted of Java and SQLite.

### Chat Application

- 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.
- React.js allows the user to see the updated front end.

### Recipe App

- The Recipe App allows the user to favorite random recipes, search for specific recipes, and view their favorite recipes.
- This application uses TheMealDB API to fetch random recipes, lists of recipes, and ingredients.
- Used HTML and CSS to create the front-end design.
- Used vanilla Javascript to route TheMealDB API functions and create the functionality of the user interface.

## SKILLS

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**TECHNICAL SKILLS:** Java, JavaScript, MySQL, Node.js, React, Visual Studio Code, HTML, CSS, SQLite, C++, C, MATLAB

## AWARDS

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**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.