

# JAKE MORALES

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## EDUCATION

**Bachelor of Science in Computer Science**  
University of California Riverside

**June 2018**  
GPA: 3.71

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C++, Javascript  
**Databases:** PostgreSQL, Redis  
**Frameworks/Libraries:** Django, React, Spring Boot  
**Other:** Git, AWS, Docker, Heroku, Netlify

## PROJECTS:

**ShareQ** – <https://shareq.app>

- ShareQ is a personal project to help me learn how to make a web app
- Built a React frontend, hosted on Netlify, that fetches data with WebSockets and Ajax requests
- Built a Django backend, hosted on Heroku, with an asynchronous web server to support WebSockets

**Search Engine Website** – <http://search-edu.online>

- Built a Search Engine with a team of 3 that has a Spring Boot backend and an Angular 2 frontend
- Integrated Lucene into the Spring Boot backend to run queries on an index of webpages
- Hosting frontend on AWS S3, and running the backend on an EC2 Ubuntu 16.04 server

**Airline Project using Docker Containers** – Code: <https://github.com/jmora060/AirlineDatabaseApp>

- Containerized a Postgres database and a Java program using Docker CE and Docker-Compose
- The Java program queries the Postgres database for Airline data
- Wrote a detailed README.md for installing and running the containers

## RELEVANT COURSEWORK

### Databases

- Studied relational database concepts such as Foreign Keys, Joins, B+ Index Trees, and more
- Configured PostgreSQL databases, practiced using indexes and hashing, and measured performance

### Networks

- Studied the 7-layer network model, TCP/IP, routing/forwarding tables, algorithms and HTTP protocols

### Machine Learning

- Learned about various Machine Learning algorithms, techniques, and validation methods
- Created a neural network in MATLAB to recognize Email spam

### Information Retrieval

- Studied indexing for rapid queries, ranking algorithms, Map-Reduce and search engines

## WORK EXPERIENCE

### Manager

**Dec 2018 – Present**

Rolling Robots – Los Angeles, CA

- Demonstrates leadership skills by scheduling 4 employees, organizing facilities, and coordinating curriculum
- Interacts with clients, students and parents in a professional manner

## INTERNSHIPS

### Information Technology Intern

**June 2018 – Aug 2018**

Creative Artists Agency – Los Angeles, CA

- Worked with the Infrastructure Operations team to facilitate Voice/Video communication services