

# Renaissance Carr

Software Engineer | [renaissancecarr.com](http://renaissancecarr.com) | [LinkedIn](#) | 619.885.8867 | [rjcarr@ucsd.edu](mailto:rjcarr@ucsd.edu)

## EDUCATION

### University of California, San Diego

Dec 2022

- Bachelor of Science in **Computer Science**
  - Extracurriculars: Computer Science ForEach, Women In Computing

## EXPERIENCE

### Associate Software Engineer (Northwestern Mutual, Milwaukee, WI)

Jan 2023 - present

- Developed new cloud microservice products from scratch to deploy
- Held Risk Engineering role and performed DevOps duties
- Held knowledge transfer sessions to teach Java programming to senior mainframe developers to aid in tech transitioning
- Tested code in three stages and deployed & monitored batch cycles after business hours

### Software Engineer Intern (Northwestern Mutual, Milwaukee, WI)

June 2022 - Jan 2023

- Participated in a team-oriented Agile/Scrum environment working closely with other teams and field experts to complete a backlog of tasks involving code enhancements and development
- Developed application to allow for new transaction types

### Computer Science Tutor (San Diego, CA)

April 2020 - present

- Tutored undergraduate Computer Science and Mathematics students, one-on-one, primarily in data structures using Java and C++ and in Calculus

## TECHNICAL SKILLS

**Software Development:** Application Programming, Web Development, Object-Oriented Design, Application & Unit Testing, Debugging/ Troubleshooting, Neural Network Training

**Tech Stack:** Spring Boot, Docker, Apache Kafka, REST Services, Postman, Kubernetes, Pylon, CheckMarx, Twistlock, Archer, Dynatrace, PagerDuty, Production Monitoring, Open API Documentation, CICD pipelines, Sonarqube, Gitlab

**Programming/Scripting Languages:** Java, Mainframe, HTML, CSS, Javascript, C++, Python, SystemVerilog, NodeJS, React, CICS, PyTorch, Junit Development, Jackson Annotations

## SOFTWARE PROJECTS

### [Portfolio Website](#) – HTML, CSS, JavaScript –

- Constructed a website using fundamental styling and website navigation skills

### **Investment Literacy Chat Bot | Hackathon** – React, NodeJS, HTML, CSS, Javascript –

- Scraped live stock data using python and available csv data, and made this information easily available to customers through a user driven chat bot via prompted messages
- Integrated this project with existing corporate website for functional pitch demonstration

### [Recipe Manager Web Application](#) – Javascript, HTML, CSS –

- Used Agile approach to construct a web CRUD application with a team of 10 to search for recipes and allow the user to store them

### **Convolutional Neural Network Training** – Python, PyTorch –

- Created and trained a 2-layered neural network to classify images containing digits and tested/reported its high accuracy and loss
- Used convolution, max pooling, and ReLU activation layers to generate 10 classification channels

### **Drone Data Service** – Java, HTML, Apache Tomcat, SQL, JSP –

- Created a java servlet that provides a RESTful web service to a drone simulator Jakarta Service Provider
- Stored drone's findings and movements in SQLite databases to find the drone's optimal location

### **Griffin Blockchain** – Java, NodeJS –

- Designed a Merkle Tree to store Blockchain nodes according to SHA-256 hash
- Utilized multithreading to run a blockchain miner for managing the server-client transaction queue and included a Proof Of Work algorithm
- Developed server-client network communication by implementing socket server

### **2048 Artificial Intelligence Solver** – Python –

- Recursively created depth 3 trees to determine the optimal moves to solve 2048 puzzle entirely