

Osama Hanhan

Multilingual Backend Software Engineer that speaks Arabic, Hebrew, and English

Bay Area

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Education

Expected: May 2021

San Jose State University - B.S. in Computer Science

GPA: 3.53 / 4.0

Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Information Security, Server-side Web Programming, Object Oriented Programming, Intro to Artificial Intelligence, Formal Languages and Computability, Database Management, Operating Systems, Introduction to Networking

June 2019

Foothill College - A.S. in Computer Science

GPA: 3.6 / 4.0

Projects

Banko - Banking Management System for Shared Finances

Technologies: HTML5, CSS3, React.js, MySQL, JQuery, Spring Boot, Git, Unix, Ajax

- An application to help you manage your finances built as a group project
- Personally built much of the Spring Boot backend, and utilizes JQuery's AJAX to link it to the React frontend
- Built the frontend functionalities that connect to the REST api, such as our messaging system, and our transaction functionalities
- Built many of the frontend React pages including the groups page, the transactions page, and the messaging page

Multithreaded Genetic Algorithm - Genetic algorithm done using multithreading

Technologies: C, Multithreading, Git, Unix, Genetic Algorithm

- Genetic algorithm that works towards a specific 'goal' array of doubles
- Utilizes multithreading with a specified thread count to split the math necessary for mutations and reproduction

ZooSystem - Zoo management system

Technologies: Java, JavaFX, Git, Unix

- Object-oriented zoo management system that allows a user to manage profits, employee actions, and animal interactions in a simulated zoo
- Received the highest grade in the class for the final project
- Used Agile development and test-driven development to build various interfaces and object functionalities
- Connected object-functionality to the front end GUI that was built using JavaFX

Multithreaded Parallel Sort - Quick sort done with threads

Technologies: C, Multithreading, Git, Unix

- Quick sort built with C that utilizes multithreading to divide the sorting work
- Randomly generates integers to be sorted, and then uses POSIX to do each sort individually

Experience

January 2020 - May 2020

Teacher Assistant - San Jose State University

- Selected for TA opportunity during my undergrad based on being one of the top performing students in William Andreopoulos' Data Structures and Algorithms class
- Worked closely with students to teach them coding conventions and data structures. Graded homework and project submissions weekly

October 2018 - July 2019

Customer Service Representative - JCPenney

- Balanced 20 hour-a-week workload while studying Physics at Foothill and teaching myself to code
- Chosen to train new OMNI associates on how to tackle problems and efficiently help customers