

Erick Larrea

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SKILLS

PROGRAMMING LANGUAGES

Javascript • Typescript • Python • C++ • SQL • Bash(Unix Shell)

LIBRARIES AND SOFTWARE TOOLS

React • Node • MongoDB • Redux • Git • ReactNative • PostgreSQL • CSS3

TECHNOLOGIES

Amazon Web Services AWS • Docker • Firebase • Heroku

WORK EXPERIENCE

SELF-EMPLOYED

COMPUTER SCIENCE TUTOR

September 2017 - Present | Los Angeles, CA

- Tutored programming in Javascript, Python, React/Redux, C++.
- Implemented several Data Structures and algorithms from the ground up.
- Taught application development full-stack front and back end.

ELCANO PROJECT

UNIVERSITY OF WASHINGTON

SOFTWARE ENGINEER

May 2017 - August 2017 | Bothell, WA

- Tested and Improved Arduino source code by developing and implementing test cases and debugging code.
- Acquired experience with the Software Development Life Cycle.

EDUCATION

UNIVERSITY OF WASHINGTON

BS IN COMPUTER SCIENCE

Graduated December 2017 | Bothell, WA

Honors: Dean's List 2016 GPA: 3.48 / 4.0

EDMONDS COLLEGE

AS IN COMPUTER SCIENCE

Graduated August 2015 | Lynnwood, WA

Honor Roll Summer 2014, Winter 2015, Spring 2015

GPA: 3.69 / 4.0

CERTIFICATIONS

React - The Complete Guide

The MERN Full Stack

CSS with Flexbox, Grid and Sass

Machine Learning

PROJECTS

ECOMMERCE STORE FROM THE GROUND UP |

JAVASCRIPT / MERN STACK

Github | Website

- Developed an Ecommerce store utilizing MongoDB, Express.js, React.js, Node.js. It has a centralized application state and logic built with Redux.js. No pre-built platform or plugin was used.
- The application includes a shopping cart, the option for users to leave product reviews, the option to pay with PayPal, administrators have an area where they can manage users, products, and orders.
- Implemented from the ground up all the React.js components: components for pagination, leaving rating and comments, product image upload.

MOVIES REVIEWER | JAVASCRIPT / MERN STACK

Github | Website

- Built a full stack single-page application with MongoDB, Express.js, React.js, Node.js (MERN), where users can rate and write reviews for movies. It fetches data from a movies information API(OMDb).
- Implemented Create, Read, Update, Delete operations(CRUD), multiple data models for database relationships, and user authentication and authorization.

ALGORITHMS ANIMATIONS | JAVASCRIPT / REACT.JS

Github | Website

- Built a React.js single-page application that animates different Searching and Sorting algorithms.
- Implemented Searching(Depth-First Search, Breadth-First Search) and Sorting(Selection, Insertion, Bubble, Quick, Merge Sort) algorithms.

BUSINESS INVENTORY TRACKING SYSTEM | C++ AND

PYTHON

Github

- Built a program that initializes the contents of an inventory, customers list, and commands from external files. It tracks customers' borrows and returns.
- Implemented from the ground up a hash table and a binary-search tree for storing and searching data with efficiency.
- Put in practice Object-Oriented programming principles (inheritance, encapsulation, polymorphism), and UML design.

68K DISASSEMBLER | 68K ASSEMBLY

Github

- Built an inverse assembler for the Motorola 68000 processor.
- It converts machine code of instructions and data into 68000 assembly language opcodes and effective addresses.