Arjun Rajani

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EDUCATION

University of California, Irvine September 2018 - June 2021

Major: Computer Science Specializations: Intelligent Systems, Information

Objective: To gain professional experience as a software engineer in the technology industry.

PROFESSIONAL EXPERIENCE

Illuminate Education, Inc Irvine, CA

Software Quality Assurance Intern June 2019 - October 2019

- Ensured the robustness of web applications used throughout over 2,000 school districts nationwide through integration and regression testing
- Designed and implemented software automation in Java to test user workflows
- Operated on testing tools including Selenium, yEd, and Atlassian

RNA Learning San Ramon, CA

Founder June 2017 - September 2018

- Developed RNA's website - https://www.rnalearning.org
- Built user management features to manage clients and tutors through one centralized application
- Features included scheduling classes, managing appointments, and communication between relevant parties
- Built using HTML, CSS, JavaScript (jQuery), PHP, and MySQL

PROJECTS

Web Based E-Commerce System February 2021

- Allows customers to login, register, view movies, place them in a shopping cart, and checkout/pay with PayPal.
- The design uses Java for the backend and React for the frontend, both in combination with SQL, multi-threading, microservices, identity management, and an API gateway.

File System January 2021

- Supports commands to create and destroy files, open and close files, and sequentially access files using buffered read and write operations. Files are mapped on the emulated disk using fixed index structures in file descriptors.
- The project is written at the byte level using the Python byte array data structure.

Consumer Analytics Classifier December 2020

- Used key concepts in Machine Learning/Data Mining to predict customer behavior with near a million data points
- Incorporated classifying techniques such as K-Nearest Neighbors, Linear models, and Random Forests

Minesweeper AI June 2020

- Python based AI for solving Minesweeper 16x16 boards
- Utilizes artificial intelligence search techniques including forward checking, model checking, and ranking by probability of success

Chat Room Server May 2020

- C based project that allows clients to connect to a server with privileges to join, create, and delete chat rooms
- Makes use of backend programming concepts such as socket programming, memory management, multi-threading, FIFO buffered job processing, and mutex locking

Corpus Search Engine February 2020

- Python based search engine to retrieve relevant websites based on search queries
- Utilizes techniques such as web crawling, tf-idf ranking, construction of an inverted index, database handling, tokenizing, and vector analysis to rank relevant search results from an index of web pages

CERTIFICATIONS

Amazon Web Services Certified Cloud Practitioner September 2020 - September 2023

- Demonstrates foundational cloud knowledge and understanding of IT services and their uses in the AWS Cloud

RELEVANT COURSEWORK

Computer Science

- Programming (Python), Programming in C++, Probability & Statistics for CS, Software Design, Artificial Intelligence, Operating Systems, System Design, Machine Learning & Data Mining, Data Management, Human Computer Interaction, Project in Artificial Intelligence, Data Structures & Algorithms, Algorithm Design & Analysis, User Interaction Software, Project in Databases and Web Applications, Project in Operating Systems

SKILLS

Programming Languages: Advanced - Python, Java, C++ , C, PHP
Intermediate - JavaScript, jQuery, AJAX, React, Node.js, Angular, Ionic
Tools: Linux, Git/Github, Microsoft Office, Selenium WebDriver, HTML/CSS, MatLab, SQL, NoSQL, JDBC, WebStorm, Postman, IntelliJ IDEA, REST API