Alex Kumar

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Education

University of California, Irvine   Sept 2017 - June 2021 (expected)
B.S. Computer Science, Minor in Statistics

Experience

Young's Market Company   **Tustin, CA**
IT Software Development Intern   *August 2019 - October 2019*
• Created an automated bot in Python to debug REST API calls on the Warehouse Management System
• Debugged order faults in the system by checking orders using Oracle SQL. This lead to 30% faster detection of faulty orders and resolutions.
• Converted SQL data from WMS (Warehouse Management System) to Excel sheets and presented faulty reports to the team.

Projects

Group Greenery   https://devpost.com/software/group-greenery
• Worked in a team of 4 to develop a web application that encourages community gardening by connecting users with a social network.
• Integrated Twilio API to notify users for weekly updates on shared gardens using Node.js and JavaScript.
• Winner of Best Hack Code Green, Honorable Mention for Best Hack using an Autonomous Database (Oracle Cloud Infrastructure).

Search Engine   *Private Repo*
• Worked in a group of 3 to make a search engine that would handle requests and query through the UCI ICS website.
• Created a search engine using Python that handled thousands of web pages with query response time under 300ms.
• Built an inverted index for querying using Regex for tokenization.
• Incorporated cosine scoring of length-normalized vectors made from queries and TF-IDF scorings for page ranking using Scikit-Learn.

Fabflix   *Private Repo*
• A full stack web app built as a class project to help users find and purchase movies.
• Built a full stack application hosted on AWS and GCP. Implemented both vertical and horizontal scaling.
• Built API endpoints for the website (jQuery) to retrieve data from the backend (MySQL) using Web Servlets (Java / Tomcat).
• Used XML Parsing to populate databases with 5000+ entries within 5 seconds.
• Created an Android App for Fabflix. Connected AWS + Tomcat backend to Android Studio app.

CrackFic   crackfic.herokuapp.com
• A website that allows users to choose a genre and title of story and pick mad libs to fill out in the story.
• A Flask application that scrapes stories from a website and generates mad libs using Beautiful Soup 4.
• Optimized speed of querying using stored metadata of genres to generate stories significantly faster.

Skills

Languages: Python, C++, Java, HTML, CSS, JavaScript, SQL.
Frameworks/Technologies: Android Studio, Flask, Scikit-Learn, Git, AWS, GCP, Node.js, jQuery, React, XML.