

Alex Kumar

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Education

University of California, Irvine

B.S. Computer Science, Minor in Statistics

Expected Graduation: June 2021

Relevant Coursework: Data Structures, Algorithms, Relational Databases, Artificial Intelligence, Search Engines and Information Retrieval, Computer Networks, Software Engineering Techniques, Human Computer Interaction, Full Stack Development, Probability Theory, Calculus.

Experience

Young's Market Company

IT Software Development Intern

Tustin, CA

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.

Projects

Group Greenery

<https://devpost.com/software/group-greenery>

- Winner of Best Hack Code Green, Honorable Mention for Best Hack using an Autonomous Database (Oracle Cloud Infrastructure).
- Integrated Twilio API to notify users for weekly updates on shared gardens using Node.js and JavaScript.
- Set up requirements for user registration and login with Firebase Authentication.

Search Engine

Private Repo

- 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 to increase page rank accuracy by using NumPy and Scikit-Learn.

Fabflix (Full Stack Web Application)

Private Repo

- Built a full stack application hosted on AWS and GCP. Implemented both vertical and horizontal scaling.
- Built API endpoints for the website to retrieve data from the backend (MySQL) using Web Servlets (Java / Tomcat).
- Used XML Parsing to populate databases with 5000+ entries within 5 seconds.

CrackFic

crackfic.herokuapp.com

- A Flask application that scrapes stories from a website and generates mad libs using BeautifulSoup 4.
- Optimized speed of querying using stored metadata of genres to generate stories significantly faster.

Personal Website

alexkumar.me

- Built using React, AWS.
- Used Axios and OAuth2.0 to authenticate requests to download Spotify user data.

Skills

Languages: (Proficient): Python, C++, Java. (Familiar): HTML, CSS, JavaScript, SQL.

Frameworks/Technologies: Android Studio, Flask, Django, Express, React, NumPy, Scikit-Learn, Git, AWS, Node.js, VSCode, jQuery, React, XML, VS Code.