MEET CHETAN GADOYA

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EDUCATION

University of Southern California, Los Angeles, CA	Master of Science in Computer Science	May 2020 **GPA:3.6/4.00**
Thakur College of Engineering and Technology, India	Bachelors, Information Technology	June 2018 **GPA:4.00/4.00**

RELEVANT COURSEWORK

Analysis Of Algorithms, Web Technologies, Operating Systems, Artificial Intelligence, Data Mining, Information Retrieval, Computer Networks, Database System, Computer and Network Security.

TECHNICAL SKILLS

- Backend: Python, Java, Apache Spark, Android, MySQL, Scala, C, C++, PyMySQL, SQL
- Web: NodeJS, PHP, AngularJS, React, HTML, CSS, JavaScript, jQuery, Flask, Express, Bootstrap.
- Others: AWS, GCP, GitHub, Bitbucket.

EXPERIENCE

Frenzy.ai: (*Software Developer Intern): Marina Del Rey, California* May 2019 – Aug 2019

- Developed a **web scraper** using Beautiful Soup to scrape relevant text and images, making it universal, at same time keeping original format intact while manually testing over **3000** websites.
- Utilized POS_tag, lemmarization, tokenization techniques to build **Named Entity Relationship** between brands and categories for fashion blogs and generated valid and relevant pairs from text.
- **Optimized** final scoring of brand-category pair by **40%** by using split function instead of word_tokenize function and improved runtime by over **90%** by testing over **400** sites.
- Deployed the Flask application on **Amazon EC-2** and **Google Cloud Platform** and performed **Stress** and **Load testing** using Apache JMeter such that it could handle over 1000 concurrent requests.
- **Technology Stack**: Python, Flask, MySQL, AWS – EC2, GCP, NLTK, Apache JMeter, HTML, CSS

LovEd: (*Web Developer Intern): Los Angeles, California* Jan 2019 – April 2019

- Evaluated romantic attraction and emotional maturity level of person after user provides answers for a simple set of questions which further helps user to get a clear view of relationship.
- Implemented **RESTful API** with Flask and front-end with ReactJS, jQuery and built modules such as user-login with SHA-1 encryption, sign-up for new user, and random daily challenge for better growth.
- Modeled the **Use-Case Diagram** based on business needs and implemented **Data Models** using MySQL.
- **Technology Stack**: Python, Flask, ReactJS, MySQL, Bitbucket, HTML, CSS, Bootstrap

PROJECTS

E-BAY Product Search: *HTML, CSS, JavaScript, Bootstrap, AngularJS, Node.js, GCP, Android* March 2019 – April 2019

- Created a web application by integrating **EBAY API** to display product's information by using **RESTful API** and handled all potential errors either by user or server.
- Developed tabular view of products with link to see product's details, seller message and similar items and added **autocomplete text** field in form, a **cart functionality** using Sessions, Facebook share option for product, and **sorting** of products list.

Developing a Linux-Like Kernel - Weenix: *C, Multithreading* Oct 2019 – Dec 2019

- Implemented processes and threads with functionality to fork and wait for processes and **synchronization** between multiple threads.
- Designed and implemented a **virtual file system** between OS kernel and actual-file system, on-disk files through **S5FS** file system.
- *[Ongoing]* Implementing **virtual memory** management system including paging and separation between user and kernel space.

Homeless People Allocation: *Python* Sept 2018 – Oct 2018

- Simulated allocation of bed space to people between 2 parties with **constraint satisfaction problem** by implementing game tree using **DFS** and optimizing using **greedy algorithm** and **alpha-beta pruning**

Recommendation System: *Spark, MLlib, Python, Scala* June 2019 – July 2019

- Built Recommendation system using Model-based, User-based and Item-based Collaborative filtering to predict user's rating for given set of businesses.
- Trained system with **10M+**record Yelp dataset and validated over **4M+**record dataset under **110** seconds with **RMSE** of **1.07**, **1.09** and **1.07** respectively for each type of collaborative filtering techniques.

SOLR Based Search Engine: *Solr, JavaScript, jQuery, PHP, HTML* April 2019 – May 2019

- Developed a Search Engine by using Apache Solr, **TIKA** and **Lucene** in order to compare performance of **TF-IDF** (Term Frequency-Inverse Document Frequency) and PageRank algorithms based on certain set of keywords.
- Integrated features such as **Auto Completion, Spell Correction, Snippet Generation.**

CO-CURRICULAR ACTIVITIES

- Presented project named "College Management System" in inter college competition with 2 other team members and secured **4th** rank.