Raj Chhatbar

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Education

Master of Science, Computer Science, *GPA: 3.7*   **Expected Graduation: May 2021**
California State University, Fullerton
Relevant Courses: Web Backend, Operating System, Artificial Intelligence, Software Verification, and Validation
Bachelor of Science, Physics and Computer Science, *GPA: 3.65,*   **Apr-2018**
St. Xavier's College, Ahmedabad and GLS University
Relevant Courses: OOP, Data Structures, Analysis of Algorithms, Database Management System, Compilers, statistics, Linear algebra

Technical Skills

Language: Python, Typescript, Go, Java, C++ *Cloud:* AWS (EC2, S3, Elasticsearch service, Sagemaker), GCP, Firebase, Kubernetes *Databases:* PostgreSQL, MongoDB, Firebase (Cloud Firestore and Realtime), Redis, Dynamo-DB *Web Tech:* Django, React-JS, Express-JS, Next.js, SASS, Material-UI *Big Data:* Apache Spark, PySpark *Libraries:* Scikit-learn, NumPy, PyTorch, TensorFlow *Architecture:* REST, GraphQL, Microservices

Work Experience

California state university Fullerton   **Graduate Research Assistant**   **January 2020 - July 2020**
- Conducted research to understand impacts on cancer, based on gender, ethnicity and geographic region
- Analyzed the subset of data using statistical methods such as multi-comparisons, conducting meta-analysis with prior studies related to mortality and morbidity for a different type of cancer
- Identified importance of various features through domain expert and removed irrelevant features

Techmicra IT solutions   **Software Developer Intern**   **January 2018 - June 2018**
- Created a unit testing framework on all backend modules using Python which reduced 20% bugs in the overall system
- Designed and optimized SQL queries and stored procedures for faster execution; retrieval of data to the database
- Managed and co-founded the committee to organize various events among employees

Projects

Virtual memory manager in operating system   C++, Singleton design, OOP, Page replacement algorithm
- Implemented a virtual memory management system, included support for paging, Virtual Memory and page replacement to and from the backing store by utilizing LRU and FIFO page replacement algorithm

Text search using Docker and Elastic Search   NodeJS, Docker, Elastic search, ReactJS, Nginx
- Populated Elasticsearch with 100 books (230,000 paragraphs) to prepare a search API by leveraging Nginx and NodeJS backend client along with ReactJS as frontend client

Real-Time Taxi App with Django Channels and React   Django- Channels, Redis, PY-test, ReactJS, Nginx
- Used asynchronous Django-channels to create WebSocket hooked with React-JS to visualize the current location using Google Maps. Leveraged Cypress for creating end-to-end testing.

Reddit Clone   Django, Bootstrap
- This project closely resembles the functionality of Reddit, where I have used django.contrib.auth modules to authenticate/signup/logout users and users model to handle users' authentication data
- Collaborated with a team of 3 in an agile development process and utilized GitHub for version control

Blogs

- **How to Setup AWS S3 with Django REST like a Beast**, I have written a tutorial blog where I have explained setting S3 Bucket with Django for serving static files

Additional Information

- **An active member of ACM student chapter**, networked with fellow programmers and gave a seminar on how to design and build REST API using NodeJS, ExpressJS, and Firebase