Raj R. Chhatbar

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TECHNICAL SKILLS

***Operating systems*:** Ubuntu, Debian, Windows systems, MacOS

Programming: Python, C++, Java, JavaScript, NodeJs, Spark, MySQL, PostgreSQL, HTML & CSS, Rest, Pipenv, Git, AWS (EC2, S3, Lambda, Sage maker, *Amazon API Gateway*), Pandas, Scikit-learn, Pytorch, Beautiful soup, NumPy, Flask, Django, AJAX, Agile

EDUCATION

Master of Science: Computer Science, GPA: 3.4 ***Aug-2018 to Present***

California State University. Fullerton

Courses: Software Engineering, Algorithm Engineering, AI, Expert Systems, Operating systems, Web Backend

Bachelor of Science: Physics and Computer Science, GPA: 3.65, ***Jun-2014 to Apr-2018***

St. Xavier's College, Ahmedabad and GLS University, Ahmedabad

Courses: Computational Physics, Linear algebra, Quantum mechanics, MIS, Database, Software design, Electrical Engineering

RESEARCH

Graduate Research Assistant, ***Jan-2020 to Present***

- Conducting research in combining Artificial Intelligence techniques with Machine learning and Big Data concepts for an early-stage cancer prediction, using generation sequence analysis

Undergraduate student researcher, ***May-2015 to Jun-2016***

Institute for Plasma Research, Gandhinagar, India

- Performed data regression analysis of Plasma parameters and increased the accuracy by 10% via utilizing system parameters
- Examined and contributed in software to operate Langmuir probe to reduce operation cost by 15%
- Coordinated with Plasma physicists for data cleaning and variable selection to ensure data clinical meaningful and analyzable

PROFESSIONAL EXPERIENCE

Software engineering Intern, ***Jan-2018 to Jun-2018***

Techmicra IT solutions, Ahmedabad, India

- Technology Stack: Python, PHP, MySQL, Linux, HTML5, CSS, JavaScript
- Performed unit testing on all backend modules using the Python unit-testing framework to check for any upcoming bug.
- Designed and Developed the database schema is sqlite3 and migrated to MySQL
- Adopted Agile and Scrum methodologies to maintain high-quality work delivered on or before the deadline
- Developed the back-end web services using Python and Django REST framework
- Implemented CI/CD deployment using Jenkins and GitHub

PROJECTS

Reddit Clone ***Oct-2019 to Dec-2019***

(Keywords- Django, HTML, CSS, Bootstrap, Agile*)*

- 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

StackExchange data insight ***Dec-2019 to Feb-2020***

(Keywords- Python, S3, Spark, PostgreSQL, Airflow*)*

- Built data pipeline with S3, Spark, PostgreSQL, Airflow on AWS which can process over 330 GB data in a batch
- Designed and implemented a unified database schema, and created indexes to reduce the data retrieval time (PostgreSQL)
- Built a dashboard using Dash to generate graphs for visualizing different metrics related to the tags of the questions asked on the StackExchange community

Social Networking Website ***May-2018 to Aug-2018***

(keywords- HTML, CSS, PHP, JavaScript, SQL, AJAX, JQUERY, Bootstrap*)*

- Built a social networking website with news feed, chat and profile view statistics using HTML, CSS, PHP, JavaScript, SQL, AJAX, JQUERY, Bootstrap

Memory manager in operating system ***Apr-2019 to May-2019***

(Keywords- C++, singleton class, page fault algorithms, Virtual RAM, reading binary file, make file)

- Implemented process management, file system, and virtual memory management
- Created memory manager which can handle page faults and uses FIFO and LRU page replacement algorithms to load new pages into virtual RAM