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Ayush Jhunjhunwala

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Summary

Highly skilled Full Stack Software Developer with over five years of experience in designing, developing, and deploying web applications. Proficient in delivering high-quality and scalable solutions. Adept at leading cross-functional teams, driving project timelines, and implementing best practices to ensure project success. Possess strong communication and problem-solving skills, with a proven track record of delivering innovative solutions that meet business objectives.

Education

MS **Computational Natural Sciences**, GPA: 9.5/10
International Institute of Information Technology, Hyderabad Jul. 2017 - Dec. 2019

B.Tech **Computer Science** GPA: 7.24/10.0
International Institute of Information Technology, Hyderabad Aug. 2013 - Jul. 2017

Experience

Lead Software Engineer Feb. 2023 - Present
JP Morgan Chase & Co. CA, USA

- Designed and implemented a data validation system to ensure completeness of data required for reporting
- Identifying and fixing data gaps within the system by collaborating with various JPMC data providing partners
- Integrating datadog across various services to increase observability
- Created a complete training program for junior talent to enable easy onboarding and quick learning
- Facilitated the scrum events of the team to improve team collaboration, productivity and delivering projects on time

Software Engineer 3 Mar. 2022 - Jan. 2023
JP Morgan Chase & Co. Hyderabad, India

- Successfully re-built the openinvest core services within the JPMC systems
- Designed and implemented a generic solution to extract, process and load backdated data into the system
- Improved testing coverage of the core services to 80%
- Contributed to candidate interviews and mentored junior talent providing guidance and assigning tasks

Software Engineer Mar. 2021 - Mar. 2022
OpenInvest Hyderabad, India

- Successfully designed and implemented the API framework in FastAPI
- Refactored the core impact-metric services making it scalable and robust, reducing the response time by 63%
- Integrated new data pipelines into the ingestion service to extract, process and load high volumes of unorganized data in Openinvest systems.

Applications Developer Jul. 2018 - Feb. 2021
Oracle Pvt. Ltd. Bengaluru, India

- Designed a scalable real-time event rating engine that enables both enterprise and midsize companies to streamline product selection, configuration, pricing, quoting, ordering, and approval workflows
- Designed and implemented a solution as a part of Oracle Cloud Loyalty team to handle processing of more than million rows of member data.

Publications

Structural Mapping of the Base Stacks Containing Post-transcriptionally Modified Bases in RNA — Jun. 2023
Z.Ali, S. Kaur, T. Kukhta, A.A.A.A. Abdul-Saleh, ***A. Jhunjhunwala***, A. Mitra, J.F. Trant, P. Sharma

Occurrence and classification of T-shaped interactions between nucleobases in RNA structures — Apr. 2023
Z.Ali, T. Kukhta, ***A. Jhunjhunwala***, J.F. Trant, P. Sharma

Structural and energetic features of base–base stacking contacts in RNA — Jan. 2023
Z. Ali, A. Goyal, ***A. Jhunjhunwala***, A. Mitra, J.F. Trant, P. Sharma

On the nature of nucleobase stacking in RNA: a comprehensive survey of its structural variability and a systematic classification of associated interactions — Feb. 2021
A. Jhunjhunwala, Z. Ali, S. Bhattacharya, A. Halder, A. Mitra, P. Sharma

Occurrences of protonated base triples in RNA are determined by their cooperative binding energies and specific functional requirements — Jan. 2021
A. Halder, ***A. Jhunjhunwala***, D. Bhattacharya, A. Mitra

A comprehensive survey on the nature of ring: ring nucleobase stacking interactions in RNA: occurrence, structural variability and classification of the associated contacts — May 2020
A. Jhunjhunwala, Z. Ali, S. Bhattacharya, A. Halder, A. Mitra, P. Sharma

Going beyond base-pairs: topology-based characterization of base-multiplets in RNA — Feb. 2019
S. Bhattacharya, ***A. Jhunjhunwala***, A. Halder, D. Bhattacharya, A. Mitra

Projects

Humor Recognition Module

- Implemented a module in python to recognize humorous one-line texts using stylistic features of humor and machine learning.
- Technologies used: Python and Numpy

QUARNA & Stack Detect

- *Stack Detect*: Web portal to identify stacking interations in a RNA and DNA bio-molecule, assign a nomenclature and visualise them in 3D using JSMOL.
- *QUARNA*: Web portal to identify the quartet topologies in RNA bio-molecules and visualise them in 3D using JSMOL.
- Technologies used: Python, Django and Javascript

Additional Experience And Awards

Deans Merit List : Ranked top 10% of the batch for academic excellence.

Ranked 3rd, National Math Olympiad: Ranked 3rd in National Math Olympiad within the state of Andhra Pradesh.

Technologies

Languages: Python, Java, C++, C, JavaScript, SQL

Frameworks: FastAPI, Flask, Django, Pytest, JUnit

Developer Tools: Datadog, Git, Kubernetes, Docker, Grafana, Splunk, Postman, Kafka, Maven/Gradle

Libraries: Pandas, Numpy, Matplotlib, Wiremock, SQLAlchemy, React, Redux