Anirudh Verma Email : an649hd@gmail.com
Mobile : +919810410558

EDUCATION

• NIIT University

Neemrana, Rajasthan

B. Tech in Computer Science; Specialisation Data Science; Minor in Finance; CGPA: 9.75

Aug. 2017 - Jul. 2021

• Amity International School

Noida, UP

CBSE Board, Class 12 (Senior Secondary) - PCM Percentage: 92.3% CBSE Board, Class 10 (Secondary) - CGPA: 10

EXPERIENCE

• Bigbasket

Bangalore, KA

Apr 2022 - Present

 $Software\ Engineer\ -\ 2$

\circ Prime Developer for the WMS Effort - Replenishment:

- * Developed critical modules for handling replenishment flows in BB2.0, resulting in the gradual elimination of external dependencies.
- * Estimated recurring cost savings of over > 1.5crore/month through the project's impact.
- * Implemented a high-performance service using low-level aiohttp and aiosql (sqlalchemy), leveraging custom-built abstractions for improved resource utilization and code readability.
- * Utilized dataclasses and typing extensively to reduce technical debt and improve code maintainability.
- * Led the migration to Async Django for the UI, resulting in highly responsive UI components with < 1s response times, even with complex scenarios involving > 20 API calls.
- * Designed and implemented asynchronous consumers capable of processing 12 Kafka messages simultaneously, reducing the need for scaling up consumers.
- * Revamped the logging structure, improving indexing and search times for efficient debugging and issue resolution.
- * Developed a specialized classifier to address validation problems related to replenishment cases around midnight, effectively eliminating instances of double ordering.
- * Identified and built a new CSRF verification module, enabling the business to maintain a large number of open tabs while preserving the state of each tab.

• CS Modules:

- * Optimized response time and expanded the availability of interfaces for CS providers such as Tata and Kapture.
- * Achieved a significant impact, resulting in cost savings of over > 50Lakh/month

• Enhancing the base bigbasket asyncio package:

- * Worked on enhancing the foundational bigbasket asyncio package utilized by Python services.
- * Implemented improvements to increase performance and efficiency, benefiting the entire system architecture.

Software Engineer I

Jul 2021 - Mar 2022

• Multi-Tenant (First Service in Company) for SaaS spinoff:

- * Successfully handled the shift of the pilot service (config service) to multi-tenancy, ensuring data isolation without additional infrastructure.
- * Architected a new implementation addressing observed shortcomings, including an optimized in-memory caching system.
- * Achieved ¡10ms response times and ensured coherency across tenants using a revamped zookeeper based synchronisation layer.
- * Played a critical role in revenue generation from TMS, WMS projects, and SaaS offerings to Croma.
- * Contributed to building the base multi-tenancy package for Java-based services at Bigbasket.

• Integration with Tata Neu:

- * Developed interfaces for CS integration between Bigbasket and Tata.
- * Managed daily external client-side interactions as a fresher.
- * Implemented multi-threaded solutions to enhance throughput and reduce response time for improved CS experience. (from ¿20s to ¡0.5s)

• Added Configuration Hierarchy for EC Group:

- * Enabled instant and intuitive configuration of services Pan-India, allowing business-level changes instead of geographical changes.
- * Example: configuring services for results such as shutting down bb-now or disabling Tata-Neu.

• Prime developer behind BBNow (Instant-Grocery):

- * Designed a new route assignment flow for LMD and implemented a dynamic CEE assignment flow with CEEPool integration.
- * Solved issues like dirty read and duplicate assignment through optimized assignment procedures.
- * Developed scripts for data setup and automated testing for BBNow.
- * Achieved impressive results: 150 successful store launches, 18.7 lakh new orders and 71 Cr. in sales within a 5-month period.

• Helm Replenishment Service:

* Converted the replenishment service to Helm, enabling template-based deployments.

Software Engineer Intern

Jan 2021 - Jun 2021

• Added SMS Provider:

- * Revamped bigbasket's SMS system for DLT integration with a new SMS provider.
- * Implemented a load balancer to enable a switch from a deterministic approach to a probabilistic approach, improving fault tolerance without manual intervention.
- o Others: CEE Warning System

metrics from the product line.

 Barco Noida, UP Intern

Jun 2019 - Jul 2019

- Real Time Dashboard: Developed a Real Time Dashboard that aggregated and visualized all performance
- o Alert System: Built an email alert system that would send a custom scripted email to the appointed manager in case of a system failure.
- Reporting System: Created a reporting service that would send reports containing raw and aggreegated data to authorized individuals at set intervals.
- o Technologies: SQL Server, Node.js, Node-RED, RMM Server, and SSRS

Projects

• Student Counselling Chatbot:

- Designed and developed a counselling chatbot solution for a career counselling portal/company.
- Successfully deployed the chatbot live in production, providing valuable support to users.
- Received recognition as the competition winner among the final 10 participating teams, securing a cash prize of INR 50,000.
- Led the project from start to finish, handling functional and technical requirements, creating a comprehensive system design document, and undertaking full-stack development.
- Ensured a seamless user experience by focusing on user-friendly features, custom UI design, and support for various devices.
- Implemented input flexibility to accommodate different user preferences and enhance the chatbot's usability.

• Broke Student Brokers:

- Built an cross platform android/ios app using Flutter to see portfolio and add funds.
- Serverless functions in python created on Google Cloud that would run everyday at 11AM to forecast and perform trades using Alpaca (Simulated), Yahoo Finance and Firebase.
- Smart India Hackathon 2020: 'Grand Finalist' (Top 10%) ISRO (Indian Space Research Organization).

Programming Skills

• Technologies: AWS, K8s, Helm, Kafka, GCE, Aerospike, Zookeeper Languages: Python, Javascript, SQL, Java