

# Bapiraju Vamsi Tadikonda

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## EXPERIENCE

### Software Engineer 2

Warner Bros. Discovery

January 2023 - Present, Bellevue, WA

- **Conceptualized and executed a Media Ingestion workflow** optimizing transcoding settings based on asset importance (sponsorship, premarket buzz, dynamic viewership data), enhancing user experience, reducing CDN costs, and improving high-priority content processing efficiency.
- **Architected and rolled out a rule-based, schema-agnostic Content Supply Chain Validation Service** supporting various content types, ensuring consistency and compliance. Improved content ingestion efficiency, reduced pipeline errors, and currently handles around 1M validation requests across all environments.
- **Developed and launched a language code normalizer** ensuring consistent language code usage across systems by automatically translating codes during ingestion. Improved data integrity, reduced confusion, and streamlined the ingestion process for titles, subtitles, synopses, and actor bios, handling discrepancies in languages like Flemish, Malay, and Chinese.
- **Engineered the ad partner service** to generate video metadata for ad targeting on Max and Discovery+, optimizing message processing to handle peak traffic efficiently.
- **Expanded the Ad Partner service** to support multiple ad server networks and regional ad-targeting requirements, enabling ad targeting for Live Sports, Olympics, CNN News, and Bleacher Report across LATAM, EMEA, and APAC regions.
- Redesigned the sync service to introduce transcoding capabilities for lower environment video assets, with enhanced job tracking, streamlining QA testing processes, and optimizing efficiency for new feature integration.
- Developed features and REST APIs in Golang to the content orchestration pipeline that serves the vast content Warner Bros. Discovery produces daily.

### Software Engineer Intern

Warner Media, HBO Max

June 2022 - August 2022, Raleigh, NC

- Redesigned the IAP Subscription Plan (SKU) service to support cross market purchases and automated price changes of HBO Max subscription plans.
- Restructured the table schemas and indexes in DynamoDB. Optimized the REST APIs resulting in the reduction of DynamoDB reads by 20 times.
- Built a JavaScript based CLI tool to add/update promotions to subscription plans to eliminate the manual effort previously done.

### Senior Software Engineer

JPMorgan Chase & Co

January 2021 - August 2021, Bangalore, India

- REST API Development - Conceptualized and implemented a new report service layer, delivering to 20 clients, with RESTful APIs for Transaction Cost Analysis (TCA) using Tableau, Flask and NGINX.
- Migrated the pricing information data from on-premises servers to AWS and designed APIs to route the queries accordingly.

### Software Engineer

JP Morgan Chase & Co.

July 2017 - January 2021, Bangalore, India

- Orchestrated the ingestion of 16 billion daily trade records using Pub-Subs and Kafka streams, seamlessly storing data in KDB (time-series database) and PostgreSQL.
- Spearheaded the design and development of backend APIs in Python and Java, crucial for supporting real-time P&L tracking of SDR products.
- Pioneered a robust Python framework for crafting sophisticated financial chat-bots and real-time trade notifiers, now integral to 60 global sales and trader chat rooms, experiencing a remarkable 200% YoY growth.
- Led collaborative efforts across diverse teams to architect and implement an optimized near real-time data extraction framework, utilizing indexes to streamline trade reconciliations from hourly to daily.

## EDUCATION

### Master of Computer Science

Minor in Data Science • North Carolina State University • GPA: 4.0/4.0

Aug 2021 - Dec 2022, Raleigh, NC

### Bachelor of Engineering, Computer Science

BITS Pilani • GPA: 8.38/10.0

Aug 2013 – Jul 2017, Pilani, India

## SKILLS

**Languages:** Python, Golang, Java, C, JavaScript, TypeScript, C++, HTML, CSS, SQL

**Software Frameworks & Libraries:** Flask, Pandas, Keras, NumPy, NLTK, Selenium, Open MPI, CUDA

**Technologies:** AWS, Kubernetes, Docker, Kafka, REST, Grafana, Kibana, Launch Darkly, NGINX, Tableau, Spark, Hadoop, MapReduce

**Databases & Dev Tools:** PostgreSQL, MongoDB, DynamoDB, KDB, GIT, SVN, JIRA, PyCharm, IntelliJ, Maven, Jenkins, Linux