Vishnupriya Thokala

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PROFESSIONAL EXPERIENCE

Zoro   San Francisco, CA
Software Engineer   *Oct 2024 - current*

- Developing Apache **Beam** ETL pipelines on GCP **Dataflow** to manage **100GB+** of daily search index transfers from **BigQuery** to **Elasticsearch** enabling product search.
- Implemented robust **BigQuery integration tests** for query logic using DuckDB and SQLGlot, increasing query accuracy and reducing regression issues by 30%.

Drexel University   Philadelphia, PA
Research Intern   *Sep 2023 - Dec 2023*

- Designed a **fuzzy search** algorithm in **Python**, incorporating Soundex phonetic encoding, trie-based data structures, and **logistic regression**, boosting search accuracy by 60% on a healthcare lexicon dataset.

FactSet   Hyderabad, India
Software Engineer 3   *Mar 2021 - Jul 2022*

- Enhanced system reliability of scheduler application by 90% through an event-driven **pub/sub** pipeline using AWS **SNS,** FIFO **SQS**, and DLQ, reducing API call failures.
- Managed Cornerstone, a workflow automation and scheduling application built using **C#, ASP.NET** (REST API), and **SQL Server**, running over **10,000** daily client workflows.
- Spearheaded application migration from **.NET Framework** to **.NET Core**, identifying compatibility issues and dependencies, shaping migration plan, enhancing performance by 50%.
- Served as the lead developer in the **migration** of application databases from on-prem SQL Server to AWS **Aurora PostgreSQL**, minimizing operational costs and delivering **$200K+** in annual savings.
- Awards: Blue Ribbon award for consistently delivering high-quality features on time, driving key product milestones.

Bank of America   Hyderabad, India
Senior Technical Associate   *Jul 2016 - Jul 2018*

- Built **full-stack** trade risk evaluation applications with dynamic **dashboards** using Bank of America's Quartz **Python** framework, automating reporting processes and improving accuracy by 40%.
- Achieved 95% code coverage through comprehensive **Pytest unit testing**, significantly improving code reliability.
- Awards: Silver and Bronze awards for outstanding deliverables and seamless cross-team collaboration.

EDUCATION

Drexel University   Philadelphia, PA
Master of Science in Computer Science, GPA: 3.7/4.0   *Sep 2022 - Jun 2024*
Awards: Graduate Dean's Ambassador, Hamilton Scholarship

Indian Institute of Technology Hyderabad   Hyderabad, India
Bachelor of Technology in Electrical Engineering   *Aug 2012 - May 2016*

PROJECTS

- Deployed end-to-end real-time data pipeline processing **10K+**music streaming events using Apache **Kafka**, **Spark**, **Airflow** on **GCP** enabling user behavior and song popularity analytics through **Data Studio** visualizations.
- Developed a **React** SPA as a GitHub interface, integrated with a **Node.js** and Express.js **microservices** backend, and **OAuth** authentication.
- Developed a **LLM** RAG **chatbot** with **LangChain** and Neo4j AuraDB, configuring graph databases to analyze complex hospital system data, including structured records and unstructured clinical notes.

SKILLS

Languages: Python, C#, C/C++, HTML/CSS, SQL
Technologies/Frameworks: FastAPI, Flask, Django, .NET, React
Databases: SQL Server, PostgreSQL, BigQuery, ElasticSearch, Redis
Tools: Docker, Kubernetes, CI/CD, Git, Jenkins, VS Code, Jira, Agile (Scrum)
Platforms: Linux/Unix, Windows, AWS, GCP