PRATHYUSHA CHAVAN SHYLENDRA

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Summary

CS Master's graduate from Virginia Tech, VA, US. Competent software developer and data engineer with extensive experience in Fin-tech, cloud solutions (AWS, GCP), CI/CD, and data integration. Proficient in Python and SQL, with a record of improving system performance and reliability, and delivering scalable technical solutions.

- **Recognitions:** Earned a double promotion (MTS-II to SDE-I, skipping MTS-III) at Nineleaps in the first annual appraisal for technical excellence, leadership, and driving critical client requirements.

Technical Skills

Software Engineering: Python; Flask, Django, FastAPI; PostgreSQL, SQLAlchemy, MySQL, MongoDB, Redis; Prompt Engineering, AutoGen, LLM Application Development; ReactJS, CSS, NodeJS; Android Studio; ElasticSearch
Data Engineering: Apache Airflow, SQL, Pandas; Matplotlib, Seaborn, Plotly, Tableau, Dash; Snowflake; PySpark
Cloud & DevOps: GCP, AWS (S3, EC2, ECS, RDS, EMR, Glue, IAM, Lambda, SageMaker); Docker; GitHub, Jira

Work Experience

Nineleaps Technology Solutions Private Limited   *Bangalore, Karnataka/India*
Software Development Engineer – I   Apr 2022 – Jul 2023

- Spearheaded the design and development of multiple microservices, including complex numerical computation modules, enhancing system reliability by 40% through testing and validation strategies.

- Mentored and assigned tasks to 3 junior employees, facilitating their contribution within 2.5 weeks.

- Engineered an ETL pipeline for master data with clear logs, robust business validation, reducing errors by 90%.

- Became the primary POC for team and clients by mastering business requirements, finance jargon, and architecture design; actively contributed to sprint planning and cross-functional collaboration.

- Swiftly resolved bugs while managing context switching across 5 production client instances.

- Eliminated bottlenecks and reduced processing time by replacing nested loops with optimized SQL queries.

Member of Technical Staff – II   May 2021 – Mar 2022

- Built 30+ APIs using Flask-RESTPlus and SQLAlchemy with end-to-end ownership of PostgreSQL design and setup.

- Developed 4 optimized ETL/ELT pipelines using Airflow to extract and integrate data from Excel and live sources, executing extensive transformations, and processing of raw data, to support core business downstream systems.

- Key developer in implementing incremental uploads for Excel with MD5 hashing for efficient identification and updating of new data; and master data deduplication, considerably reducing data duplication. Together, these features boosted system flexibility and performance by 80%.

Accenture Solutions Private Limited *Bangalore, Karnataka/India*
Application Development Associate Feb 2021 – May 2021

- Completed training in .NET (C#), Robotic Process Automation; and support role in an RPA project.

Education

Virginia Tech: MEng in Computer Science and Applications GPA: 3.83/4
Aug 2023 – May 2025
R N S Institute of Technology: B.E in Computer Science and Engineering CGPA: 7.77/10
2016 – 2020

Master's Experience

SmartDemand (Full Stack, Final Capstone Project) Aug 2024 – Dec 2024

- Designed, developed, and led deployment of an AI and data-driven system on AWS, processing 2 years of sales data using XGBoost (82% accuracy) to optimize future inventory restocking for small businesses.
- Architected and integrated LLM chatbot and visualization dashboards in React, translating complex analytics into actionable insights in natural language and graphs enhancing decision-making, for non-technical users.

Ducky: Interactive Web GenAI-powered Coding Assistant Jan 2024 – Apr 2024

- Developed an AI-powered assistant that streamlined code reviews, software topic learning, and image generation, using Prompt Engineering, AutoGen, and Streamlit, reducing manual debugging effort by 50%.
- Built a high-performance feature with AutoGen for coding challenges with adaptive challenge difficulty, optimized solutions and test cases, maintaining sub-5s response latency.

Full-Stack Bookstore Deployment on AWS Sep 2023 – Feb 2024

- Built a full-stack bookstore using Figma, Java, React, and MySQL, deployed on AWS with EC2, VPC (public/private subnets), NAT Gateway, Internet Gateway, and Route 53.
- Achieved 30% faster page load times by optimizing network traffic and enhanced security by fully isolating the database, reducing external access risks by 100%.

Therapy Cats (Full Stack Project) Sep 2023 – Dec 2023

- Developed a screen-adaptive web application to adopt cats using Django, Postgres, and CSS with session management, authentication, role-based access control, and user communication.

- Enhanced user engagement with personalized portals and a real-time activity feed, dynamically managing redundant links without omitting key user information and actions.