Sathvik Putta

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SUMMARY

Skilled Data Engineer with over 3 years of experience building scalable data pipelines, cloud-native solutions, and full-stack applications across AWS, GCP, and Azure. I am proficient in Python, SQL, Databricks, Azure Data Factory, ETL development, and modern web frameworks. Developed automated ETL workflows, built real-time data processing systems with AWS Glue and Step Functions, and delivered interactive dashboards using Power BI and Tableau.

WORK EXPERIENCE

Data Engineer Intern   May 2025 – Present

SUCCESS RATE INC   *Edison, NJ, USA*

- Developed and integrated scalable **RESTful APIs** using **Python Flask**, **FastAPI**, and **Node.js**, delivering secure backend services for analytics and operational workflows.
- Designed modular **data pipelines** and **event-driven architectures** using **AWS Glue**, **Lambda**, **Step Functions**, and **Kinesis** to support real-time data processing.
- Built responsive full-stack applications with **React.js**, **TypeScript**, and **Node.js**, enabling seamless interaction with backend data systems.
- Implemented **role-based security**, **token-based authentication**, and **secure API gateways** to protect sensitive business and customer data.
- Engineered and optimized **SQL** and **NoSQL** data models across **MySQL**, **SQL Server**, **MongoDB**, and **Delta Lake** to improve query speed and ensure data consistency.
- Developed automated ETL workflows using **Azure Data Factory**, **Databricks (PySpark)**, and **SSIS** to streamline ingestion, transformation, and reporting processes.
- Deployed and managed cloud-native infrastructure using **Docker**, **Kubernetes**, and **Terraform** across **AWS** and **GCP**, improving scalability and deployment reliability.
- Leveraged **Databricks**, **PySpark**, and **distributed processing** techniques to clean, merge, and analyze large datasets for analytical and operational use cases.
- Implemented **performance tuning**, **caching**, and **pipeline optimization** strategies that reduced processing time for high-volume datasets by over 40%.
- Collaborated with **QA** and **DevOps** teams to maintain CI/CD pipelines using Azure **DevOps** and **GitLab**, enabling faster, automated, and error-free releases.
- Led modernization of legacy data systems into **cloud-based architectures**, reducing operational overhead and improving security posture.
- Conducted **data quality audits**, **validation routines**, and **reconciliation processes** to ensure accuracy and reliability across enterprise data environments.

Data Engineer   Sep 2022 – Nov 2023

ASICS TECHNOLOGIES   *Hyderabad, India*

- Designed and developed **interactive Power BI dashboards** using **DAX**, drill-through reports, custom KPIs, and role-level security (RLS), enabling leadership to quickly monitor operations and improving decision-making speed by **35%**.
- Gathered, analyzed, and translated business requirements from cross-functional teams to build analytics solutions supporting marketing, finance, and operations processes.
- Engineered **end-to-end ETL pipelines** using **Azure Data Factory**, **Databricks (PySpark)**, and **SSIS**, automating data ingestion and transformation workflows for multiple departments.
- Optimized high-volume data processing jobs, reducing ETL runtime by **25%**, improving data freshness for dashboards and analytical models.
- Developed and managed data storage solutions using **Azure Data Lake Storage**, **Delta Lake**, and **SQL-based warehouses**, ensuring secure, reliable, and scalable access to structured and semi-structured datasets.
- Built **automated reporting pipelines** that eliminated manual effort, saving analysts **15+ hours per month** through scheduled refreshes, data quality checks, and smart validation rules.

- Implemented data governance practices including quality checks, data audits, lineage tracking, and documentation to improve end-to-end transparency and accuracy.
- Conducted in-depth analysis on customer behavior, product performance, and operational metrics, delivering actionable insights through visual storytelling in Power BI and Tableau.
- Led organization-wide training sessions on **Power BI**, **SQL**, **Azure Synapse**, and dashboard best practices, significantly improving internal data literacy.
- Collaborated with engineering and product teams to integrate advanced analytics workflows into operational systems for forecasting, segmentation, and KPI tracking.
- Wrote optimized SQL queries, views, and stored procedures for analytical consumption, ensuring reliable, high-performance access across multiple BI environments.
- Partnered with stakeholders to validate insights, refine dashboards, and streamline ongoing analytics processes, supporting data-driven decision-making across the organization.
- **Applied SOLID principles and design patterns** to build scalable, maintainable software components, while developing solutions in C#, JavaScript, TypeScript, Java, Python.

Business Intelligence Analyst   Jan 2022 – Sep 2022
ICT   *Chennai, India*
- Consolidated and transformed structured and semi-structured datasets from **SQL Server**, **Excel**, and **CSV** using **Power Query**, advanced **SQL scripting**, and data modeling best practices to support BI and analytics workflows.
- Designed and deployed **Power BI dashboards** with **DAX**, KPI scorecards, drill-downs, and trend analysis, enabling stakeholders to track project and operational performance in real time.
- Automated recurring reporting processes using **Power BI Service** scheduled refreshes and **SQL Agent** jobs, reducing manual reporting effort by **20%** and improving delivery accuracy.
- Optimized Power BI data models by refining relationships, enhancing query folding, and improving **DAX** performance to reduce load times and improve dashboard responsiveness.
- Created SOP documentation, data validation rules, and reporting standards while collaborating with senior analysts to improve KPIs, visualization clarity, and overall BI governance.

CERTIFICATIONS
- Microsoft Certified: Azure AI Fundamentals – AI-900
- Microsoft Certified: Azure Fundamentals – AZ-900

EDUCATION
Master of Computer Engineering (Data Science Specialization)   May 2025
Sacred Heart University, Fairfield, Connecticut
Bachelor of Engineering, Computer Science and Engineering   May 2023
Saveetha School of Engineering, Chennai, India

SKILLS
- **Programming Languages**: Python, C, C++, C#, Java, JavaScript (ES6+), TypeScript, VB.NET, HTML5, CSS3
- **Web Technologies & Frameworks**: .NET Core, .NET Framework, ASP.NET MVC, ASP.NET Web API, ASP.NET Web Forms, Classic ASP, ADO.NET, LINQ, Entity Framework Core, Blazor, Flask, Django, FastAPI, React.js, Angular, Node.js, Express.js, React Native, Bootstrap, WPF, IIS
- **Databases & Cloud Platforms:** SQL, T-SQL, SQL Server, MySQL, PostgreSQL, MongoDB, Delta Lake, SAP, Microsoft Azure (App Service, Blob Storage, Key Vault, Azure Data Factory, Azure DevOps), AWS, Databricks (PySpark), ETL Pipeline Development, Data Transformation, Big Data, Docker, Kubernetes, Apache Kafka
- **IDEs & Tools**: Git, Gitlab, GitHub, SVN, Visual Studio, Eclipse, Jupyter Notebook, AutoCAD, Clarity PPM, Power BI, Docker, Visual Studio Code, Jira, SSMS, Apache Kafka, Swagger, Kubernetes.
- **Operating Systems& Documentation Tools**: Windows, Mac, Linux, Word, Excel, PowerPoint, SharePoint