## Manasa Resume

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# SUMMARY

With 4 years of IT experience, I have worked extensively in software development and data engineering, building scalable applications and optimizing data workflows. Proficient in Python, AWS, and database performance tuning, I specialize in developing robust software solutions, automating CI/CD pipelines, and enhancing system efficiency. I thrive on solving complex challenges, streamlining development processes, and leveraging software and data-driven insights to drive business success.

# PROFESSIONAL EXPERIENCE

## Software Engineer | ASU |Volunteering Nov 2023 – Aug 2024

* Developed modular and scalable code in **Python**, enhancing development efficiency and system maintainability.
* Designed and streamlined **CI/CD pipelines** using **Jenkins** and **GitHub** Actions, cutting deployment times by 45% and ensuring seamless releases. Implemented Prometheus and Grafana for system monitoring, reducing issue detection time and improving uptime reliability.
* Strengthened software quality by **debugging** and resolving critical issues during testing, ensuring robust and reliable system functionality.
* Optimized **PostgreSQL** performance and implemented **Memcached caching**, improving application load times.
* Collaborated with cross-functional teams in an **agile environment** to deliver high-quality software solutions while leveraging **Git** for version control and **Jenkins** for automation.

## Associate Data Engineer| Wells Fargo | Contract Aug 2021 – Dec 2022

* Developed and optimized **ETL workflows** using **Python** and **AWS Glue**, streamlining **data ingestion** and **transformation**, which reduced processing time by 30% and improved data pipeline reliability.
* Designed and implemented **star** and **snowflake** schema-based data models in **Amazon Redshift**, enhancing query performance and enabling efficient reporting and analytics.
* Built scalable data pipelines using **AWS EMR** and **Spark**, enabling real-time data processing and improving system throughput by 25%.
* Automated repetitive data workflows and data validation using Python and Lambda, significantly reducing manual intervention and ensuring data accuracy across multiple business functions.
* Created **interactive dashboards** and reports in **Power BI**, integrating **SQL**-based data models to deliver actionable insights that improved business decision-making processes with continuous improvement.
* Delivered **L2 production support** during critical deployments, managing **release pipelines** with Jenkins and **coordinating with QA teams** to ensure zero-downtime transitions. Established secure and scalable data storage solutions using **AWS S3** and **Redshift,** enabling real- time data accessibility while maintaining compliance with data governance standards.

## Junior Analyst| Apple|Contract Jul 2021 – Aug 2021

* Collected and documented project requirements, action items, and **follow-up tasks, fostering clear communication** across project teams.
* Supported senior analysts in **data gathering, workflow documentation**, and process optimization to align project goals and objectives.

# TECHNICAL SKILLS

**Cloud Computing:** Amazon Management Console, Amazon EC2, IAM, Amazon S3, Redshift, Lambda, Amazon RDS, AWS VPC, Kinesis, EBS.

**Programming Languages:** Core Java, Python, PL/SQL, C++.

**Frameworks, Tools, Databases, and OS:** SQL, MySQL, PostgreSQL, Tableau, Power BI, Informatica, Autosys, Git, GitHub, Windows, Linux.

**Text Editors, IDEs:** Notepad++, Excel, Microsoft Word, Eclipse, Visual Studio Code, Spyder IDE, MySQL Workbench, Jupiter Notebook.

**API Development**: RESTful APIs, Flask, Fast API.

**Libraries:** PyTorch, TensorFlow, Scikit-learn, and pandas.

**Front-End, Communication, Software Methodologies:** Teams, Slack, Outlook, Agile, Kanban, Scrum, JIRA, HTML, CSS, XML.

# EDUCATION

**Master of Science, Information Technology | Arizona State University, USA | GPA: 4/4 Dec 2024** Data Visualization & Reporting, Cloud Architecture, Big Data, Intro to AI Cybersecurity, Data Science, Data in the Cloud (AWS), DBMS. **Bachelor of Technology in Computer Science| JNTUH University, India| GPA: 8.1/10 Jun 2021** Software engineering, object-oriented programming, Core Java, DBMS, data structures, machine learning, Algorithms, Web development. **ACADEMIC PROJECTS**

## Autoscaling Image Recognition using AWS. Nov 2024

* Developed and deployed a Python-based scalable image recognition application on **AWS**, utilizing IaaS resources for automatic scaling and cost optimization. Implemented efficient data handling and image processing using **AWS SQS and S3**, integrated with **Python** and **AWS SDK**, ensuring enhanced scalability and operational efficiency.

## Dynamic Analytics and Visualization for Movie Datasets. Oct 2023

* Analyzed large-scale movie datasets using **Python**, ensuring data quality through cleansing and transformation. Designed **Tableau** dashboards with calculated fields, improving decision-making accuracy by 20%. Optimized workflows with advanced **ETL processes** and pipeline automation. Streamlined data engineering practices to enhance analytics and visualization efficiency.

## Human activity recognition using machine learning and data analysis. Jan 2021

* Achieved 80% accuracy in Human Activity Recognition by developing **a logistic regression** model and implementing robust **ETL pipelines** for data preprocessing, transformation, and integration. Provided actionable insights for healthcare and human-computer interaction applications, enhancing data-driven decision-making.

# CERTIFICATIONS

## AWS Certified Cloud Practitioner

* **Hacker Rank Certifications:** Python, SQL, Problem Solving