**SAI RAM REDDY PADURI**

**PYTHON DEVELOPER**

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# SUMMARY

* Versatile Python Developer with over 4+ years of experience and a solid background in computer science, proficient in building scalable and robust applications.
* Strong Python skills and practical knowledge of **back-end frameworks** such as **Flask and Django**
* Proficient in SQL with extensive experience in **data mining, statistical analysis, and data visualization**.
* Designed and implemented **real-time dashboards and monitoring pages using Plotly and Plotly Dash**, enabling live visual insights into system health, performance metrics, and data pipelines.
* Developed dynamic, drill-down visualizations using **Plotly Dash** embedded in Django apps, enabling stakeholders to interact with live data and make real-time operational decisions.
* Integrated the **ELK stack (Elasticsearch, Logstash, Kibana)** to build operational dashboards and centralized logging solutions for proactive monitoring and troubleshooting.
* Automated log parsing and error alerting by integrating **Logstash pipelines** with Kibana dashboards, significantly reducing response time to production issues and improving system observability.
* **Expertise in RESTful API Development** and integration, building well-documented and secure endpoints to facilitate communication across applications.
* Experienced with **AWS services**, including EC2, S3, and Lambda, to deploy and manage cloud-based applications and microservices.
* Possesses a comprehensive understanding of database management systems, including **MySQL, Oracle, MongoDB, and PostgreSQL**.
* Strong understanding of version control through **Git and GitHub**, following best practices in collaborative software development.
* Applies **Agile methodologies** to deliver high-quality analytical projects within tight deadlines.
* Dedicated to code quality through rigorous unit testing and use of **CI/CD** tools like **Jenkins, Docker, and Kubernetes** for deployment automation.
* Demonstrate strong problem-solving abilities and critical thinking skills, consistently uncovering key trends and patterns that drive strategic decision-making.

# TECHNICAL SKILLS

**Programming Language:** Python, SQL.

**Databases:** MySQL, Oracle, MongoDB, PostgreSQL.

**Libraries:** Django, Pandas, Requests.

**Cloud Technologies:** AWS, Azure.

**Development Tools:** Docker, Kubernetes, Jenkins

**Methodologies:** Agile, Scrum.

**Version Control Skills:** Git, GitHub.

**Additional Skills:** RESTful API Development, Microservices, Unit Testing, Debugging, Problem-solving,
 Communication skills.

# EDUCATION

**Auburn University at Montgomery, AL**

**Master’s in Information Technology May 2022 – Aug 2023**

**Ashoka Institute of Technology, India**

**Bachelor’s in Mechanical Engineering Jul 2018 – Jun 2021**

**Government Polytechnic, Nalgonda, India**

**Diploma in Mechanical Engineering Jul 2015 – May 2018**

# PROFESSIONAL EXPERIENCE

**ConnX Inc, NJ**

# Python Developer Nov 2024 – Current

# Architected and deployed end-to-end microservices using Django and Fast API, enabling modular and scalable communication layers for enterprise applications.

# Led the development of asynchronous API services using Python’s asyncio and aiohttp, improving throughput and reducing latency by 50% for high-traffic endpoints.

# Implemented enterprise-grade OAuth2.0 and JWT-based security layers across APIs and internal services, ensuring compliance with security standards and reducing breach risks.

# Integrated advanced CI/CD pipelines using GitHub Actions and Jenkins, incorporating Docker containerization and Helm-based Kubernetes deployments for seamless production rollouts.

# Designed robust background job frameworks with Celery and Redis to handle heavy batch-processing workloads, increasing system reliability during peak usage.

# Orchestrated data pipelines that leveraged Pandas and SQL Alchemy to cleanse, normalize, and analyze large datasets stored in PostgreSQL and MongoDB.

# Designed and deployed real-time monitoring dashboards using Plotly Dash, visualizing live API metrics, device health, and service uptime across distributed systems.

# Integrated Plotly visualizations into Django applications using django-plotly-dash, providing dynamic and interactive data insights for operational teams.

# Spearheaded migration of legacy applications to cloud-native architecture on AWS using services such as ECS, Lambda, and SQS, reducing infrastructure costs by 30%.

# Built real-time monitoring and logging tools using ELK stack and Prometheus-Grafana dashboards to proactively detect anomalies and system degradations.

# Championed best practices in code quality through peer reviews, test-driven development (TDD), and maintaining 90%+ unit test coverage across all projects.

**Smart IMS, NJ**

# Software Developer Oct 2023 – Nov 2024

# Developed and deployed RESTful APIs to integrate various internal and external systems, ensuring secure and efficient data communication.

# Designed and implemented scalable Python scripts to automate repetitive tasks, improving team efficiency by 30%.

# Collaborated with cross-functional teams to gather requirements, design endpoints, and test APIs, ensuring alignment with business needs.

# Enhanced API performance by optimizing code and implementing caching mechanisms, reducing response times by up to 40%.

# Implemented robust authentication and authorization protocols (OAuth2, JWT) to ensure API security.

# Created detailed API documentation using tools like Swagger, facilitating easier adoption and integration for developers.

# Conducted unit and integration testing for APIs, achieving over 95% code coverage to ensure reliability and robustness.

# Utilized version control systems like Git to manage changes, ensuring a streamlined and collaborative development process.

# Monitored and maintained APIs in production, quickly identifying and resolving issues to minimize downtime.

# Tata Consultancy Services, India.

**System Engineer Feb 2022 - Jul 2022**

# Engineered and optimized SQL queries to extract, transform, and load large datasets from PostgreSQL and MongoDB, ensuring data quality and reliability for system reporting and analysis.

# Integrated Python scripts with automation tools to monitor and analyze system performance, improving troubleshooting efficiency.

# Deployed and managed data warehousing solutions using AWS Redshift, enhancing system query speeds and optimizing storage for datasets exceeding 1 TB.

# Designed and implemented over 50 dashboards using Tableau and MS Excel to provide real-time insights and reports, empowering management to make informed decisions.

# Utilized AWS Athena for executing ad-hoc queries on datasets stored in S3, enabling faster data exploration and analysis without additional ETL processing.

# Led efforts in text mining and data cleaning to improve the quality of operational data, enhancing system performance and output accuracy.

# Collaborated with cross-functional teams to resolve system issues, manage configurations, and document system changes.

# Leveraged Git for version control, ensuring accurate tracking of updates and seamless collaboration on system-related projects

# Inspire Business Solutions, India

**Python Developer Jun 2020 – Feb 2022**

* Designed and developed scalable Python applications to automate business workflows, reducing manual effort by 25%.
* Built and maintained RESTful APIs to streamline communication between client-facing applications and backend systems.
* Collaborated with cross-functional teams to gather requirements, optimize workflows, and deliver tailored software solutions.
* Wrote efficient Python scripts for data processing, analysis, and visualization, improving decision-making processes for stakeholders.
* Utilized frameworks like Django and Flask to create secure and robust web applications, enhancing user experience and system reliability.
* Implemented data validation and error-handling mechanisms, ensuring system accuracy and reducing downtime by 20%.
* Deployed applications on cloud platforms, leveraging tools like AWS EC2 and S3 for scalability and cost-effectiveness.
* Documented code and processes comprehensively, enabling seamless onboarding for new team members and maintaining project continuity.