

# Jai Venkata Arun Akula

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## Professional Summary:

- Python Developer with 3+ years of experience in designing, developing, and deploying scalable production systems with a strong focus on data migration, automation, and system integration.
- Proficient in Python, SQL, Java, and C++, with hands-on expertise in object-oriented programming (OOP) and implementing advanced data structures like trees, graphs, and hash tables for high-performance computing.
- Skilled in building and optimizing RESTful APIs and integrating with enterprise platforms like ServiceNow during migrations from legacy systems such as Remedy.
- Strong background in data analysis and validation, leveraging tools like pandas, NumPy, and PostgreSQL to ensure data integrity and actionable insights.
- Experienced in Agile (Scrum), Waterfall, and V-Model development methodologies for efficient and iterative project delivery.
- Adept at resolving production issues through root cause analysis, debugging, and performance tuning to ensure 99.9% system reliability.
- Proven ability to collaborate with cross-functional teams and stakeholders, participate in code reviews, and deliver business-aligned solutions on time.
- Familiar with cloud platforms like AWS and Azure, and passionate about exploring emerging technologies such as blockchain and automation frameworks.
- Committed to continuous learning and contributing to impactful solutions through robust coding practices and modern software development standards.

## Technical Skills:

- **Programming Languages:** Python, C++, Data Structures
- **Databases:** SQL, PostgreSQL, Toad
- **Continuous Integration:** Jenkins
- **Build Management:** Maven
- **Project Tracking:** Jira
- **Tools & IDEs:** PyCharm, Visual Studio Code, Eclipse, NetBeans, ServiceNow, Remedy, pandas
- **Network Protocol Analysis:** Wireshark, Tshark
- **Cloud Platforms:** AWS, Azure

## **Educational Qualifications:**

– **Master of Science (MS) | 3.9CGPA**

*Computer Science / Jan 2024 – May 2025 | Northern Arizona University, Arizona, The USA.*

– **Bachelor of Technology (B. TECH) | 3.8CGPA**

*June 2016 – May 2020 | Sathyabama University, Tamil Nadu, India*

## **Professional Experience:**

**Software Engineer**

*Tech Mahindra*

Jan 2021 – Jan 2024

*Pune-India*

**Project Name:** Telefonica

**Technologies:** Python, Flask, Django, SQL, PostgreSQL, ServiceNow, Jenkins, JIRA, JFM, Splunk, pandas, NumPy, VS Code, Toad

- Developed a robust middleware application to deliver accurate MSISDN and SIM data to over 1 million daily users, enhancing multi-user platform integration and system communication reliability.
- Built and optimized RESTful APIs using Python frameworks such as Flask and Django for seamless service-to-service communication.
- Automated data validation workflows using Python scripts, reducing QA manual effort by 20+ hours/month and improving accuracy of data entries.
- Designed and implemented Python-based scripts for ETL (Extract, Transform, Load) tasks to clean and process large datasets, improving data quality and integrity.
- Leveraged pandas and NumPy for data wrangling and visualization, extracting insights to support business and technical decision-making.
- Used SQL and PostgreSQL extensively for writing complex queries, performing data modeling, and ensuring 100% data consistency across systems.
- Employed VS Code, Toad, and Jenkins to build, test, and deploy Python code in Agile sprints with version control using Git.
- Conducted code refactoring and optimized SQL queries to enhance system performance and reduce latency.
- Built monitoring scripts in Python to track system performance metrics and set up automated alerts using Splunk and thresholds, resulting in a 15% performance improvement.
- Automated repetitive tasks using Python (e.g., data entry, batch processing), increasing engineering productivity and reducing error rates.
- Provided L2 technical support through ticketing systems (ServiceNow, JIRA), resolving cross-platform issues with a 95% resolution rate.
- Documented technical specifications, user manuals, and production metadata to align with financial industry compliance standards, leading to a 40% efficiency gain.

- Collaborated with cross-functional teams on Agile sprint planning, stand-ups, and JIRA-based tracking, ensuring timely delivery of key milestones.
- Led efforts in both logical and physical data modeling, streamlining data pipelines for downstream analytics.
- Ensured CI/CD pipeline integration using Jenkins, contributing to automated builds, testing, and deployments in development and staging environments.