


SUNIL KUMAR KALAGARLA

IN, USA

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SUMMARY

- Accomplished as a Software Developer with around 3 years of experience in designing, and managing scalable, high-performance software solutions.
- Proficient in building ETL Tools and streaming pipelines using Apache, Hadoop, Spark, Azure, and AWS, handling large-scale data processing of up to 1 TB for real-time analytics.
- Have hands-on experience working with the Django Framework for web development.
- Expertise in database management (MongoDB, PostgreSQL, NoSQL), data visualization (Tableau, Power BI), and Networking using TCP/IP, DNS.

SKILLS

- **Programming Languages:** Python
- **Methodologies:** Agile/Scrum, SDLC
- **Data Handling:** Pandas, NumPy, CSV Parsing, DSA
- **Web Frameworks:** Django, Flask, FastAPI
- **Version Control & CI/CD:** Git, GitHub, GitLab, Poetry, Pipenv
- **Visualization Tools:** Tableau, Power BI, Google Data Studio, MS Excel
- **DevOps & Automation:** Fabric, Boto3 (AWS SDK), Poetry, Docker, Kubernetes
- **Front-End Technologies:** React.js, Angular, Vue.js, Bootstrap, Tailwind CSS, jQuery
- **Networking:** SD-WAN (Cisco Viptela, VMware VeloCloud), TCP/IP, DNS
- **APIs:** Django, REST Framework, Flask-RESTful, GraphQL (Graphene)
- **Cloud Tools:** AWS (S3, EC2, Redshift, IAM, Glue), Azure (Databricks, Data Lake)
- **Databases:** SQL, MySQL, PostgreSQL, MongoDB, NoSQL, AWS Redshift, RDS, DynamoDB

PROFESSIONAL EXPERIENCE

Purdue University

Sep 2024 - Dec 2024

Python Developer (Research Assistant)

IN, USA

- Designed and implemented serverless workflows by leveraging Python in conjunction with AWS Lambda, enabling a high-volume university platform to process monthly transactions seamlessly.
- Automated PowerBI report generation using Python scripts to streamline the extraction, transformation, and loading (ETL) of university data, delivering actionable insights to over 50 users.
- Integrated AWS S3 with Python to create a scalable storage solution for university logistics and dispatch systems, supporting RESTful APIs to manage over 20 requests per second, storing and retrieving critical operational data.
- Enhanced collaboration efficiency among university development teams by employing Git for version control, effectively managing dependencies and defining project environments for Python-based projects.
- Enhanced university systems' network performance by optimizing MongoDB database configurations, which reduced query latency by 50% and significantly boosted data retrieval speed and user satisfaction.

Dell Technologies

Feb 2021 - Nov 2022

Software Developer

India

- Preprocessed and cleaned over 300 datasets using Pandas, enhancing data pipelines in a custom business intelligence solution for improved tech diagnostics performance.
- Harnessed Python to architect RESTful APIs enabling a system to consistently handle over 10 requests per second by integrating schema validation ensuring both data integrity and system stability under heavy loads.
- Enhanced three predictive models with TensorFlow, improving system failure detection accuracy by 15% and reducing model execution time by optimizing for six fewer calculations per batch.
- Developed Django REST APIs for a transaction processing system, reducing latency by 0.5 seconds per request and supporting daily operations for a payment gateway and securing endpoints with JWT authentication.
- Integrated Tableau with Python-driven APIs to systematize report generation for a cloud analytics tool, cutting manual data processing time by 15 hours/week and automated visualization of 100+ system metrics, empowering stakeholders.
- Formulated Agile sprints to deliver 5+ production-ready features per quarter, focusing on scalable backend services for complex applications and managed GitHub commits using CI/CD pipelines ensuring rapid iteration cycles.
- Designed DynamoDB-backed microservices using Python, scaling to support 50+ concurrent users for a user management system to minimize API response times by 0.3 seconds, enhancing system responsiveness under peak traffic conditions.

Trigent Software

Jul 2020 - Jan 2021

Software Developer Intern

India

- Engineered complex database queries using SQL, enhancing data retrieval efficiency for over 5 web and mobile applications by implementing indexing and query refactoring techniques, reducing average query execution time.

- Incorporated AWS Redshift to architect and deploy scalable data warehousing solutions for 2 enterprise-level projects, integrating large datasets for real-time analytics boosting processing speeds by 20% and enabled seamless reporting.
- Engineered and maintained high-performance backend systems with PostgreSQL, managing relational databases for 4+ applications by designing efficient schemas and triggers, ensuring data integrity across transactions.
- Streamlined development workflows using Github, managing version control for 2 repositories with over 5 contributors by implementing branching strategies and facilitating smooth code reviews, rapid deployments across development cycles.
- Revised bullet point:
Utilized Excel to create advanced spreadsheets with pivot tables, charts, and macros for tracking KPIs, enhancing stakeholder visibility into project timelines, and optimizing resource allocation to decrease downtime in multi-node cloud environments.

EDUCATION

Purdue University

Master of Science, Computer Science

Jan 2023 - Dec 2024

Pragati Engineering College

Bachelors, Information Technology

Jul 2017 - Jun 2021