SUNIL KUMAR KALAGARLA
Software Developer

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SUMMARY

- Accomplished 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.
- Hands-on experience with Django for developing secure, scalable, and data-driven web applications, including REST API integration and backend logic implementation.
- Expertise in database management (MongoDB, PostgreSQL, NoSQL), and networking protocols including TCP/IP and DNS.

SKILLS

- **Programming Languages:** Python, C
- **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
- **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

BNY Mellon   **Mar 2025 – Current**

Software Developer   IN, USA

- Developed and maintained scalable backend modules using Python and SQL, supporting core financial systems for trade execution, reconciliation, and cash management across multi-asset portfolios.
- Designed optimized SQL schemas and stored procedures to support real-time transaction processing and compliance reporting, reducing system latency and improving database efficiency.
- Built interactive and secure web components using JavaScript and React, enhancing user experience on internal dashboards used by financial analysts and operations teams.
- Implemented automated workflows using Python scripts to integrate third-party APIs for real-time market data ingestion, improving the responsiveness of trading and valuation modules.
- Participated in full SDLC including code reviews, unit testing, and CI/CD integration via Jenkins and Git, accelerating deployment cycles for business-critical applications.

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.
- Employed Git as the cornerstone of version control for Python-based projects, managing dependencies and defining project environments to facilitate collaboration among university development teams.
- Configured MongoDB databases to enhance network performance for university systems, reducing query latency from 2

minutes to 1 minute fine-tuning connection settings and mapping domain configurations to database servers,

Dell Technologies   **Feb 2021 - Nov 2022**
Software Developer   India
- Employed Pandas to preprocess and clean 300+ datasets, streamlining data pipelines for a custom business intelligence solution tailored to tech diagnostics ensuring seamless integration with for performance optimization.
- 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, processing data points per batch to achieve high accuracy in system failure detection for algorithms to slash model execution time by 6 iterative calculations.
- 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
- Developed and fine-tuned SQL queries to enhance data retrieval processes for 3 web applications, improving performance.
- Implemented indexing strategies under the supervision of a senior developer, minimizing query execution time by 30 seconds.
- Deployed AWS Redshift for a data warehousing project, enabling real-time analytics for 1 enterprise application supporting the integration of diverse datasets, which streamlined data processing and improved report generation speed.
- Contributed to the maintenance of PostgreSQL databases for applications by designing basic schemas and triggers to ensure data consistency, daily transactions and maintaining reliable database operations.
- Designed Excel spreadsheets incorporating pivot tables and charts to monitor KPIs for 2 projects refining stakeholder visibility into development timelines by presenting clear, enhanced project tracking and informed decision for project management.
- Facilitated seamless collaboration among a team of 3 developers, ensuring smooth integration of code changes process by boosting the project's development workflow and maintaining code quality.

EDUCATION

Purdue University   **Jan 2023 - Dec 2024**
Master of Science in Computer Science   IN, USA

Jawaharlal Nehru Technological University   **Jul 2017 - Jun 2021**
Bachelors in Information Technology   Andhra Pradesh, India

CERTIFICATION

[AWS Certified Cloud Practitioner](#)