Sudeer Kumar Gadwala Yugender

Data Engineer | Python Developer

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SUMMARY

Data engineer and Python developer with 10 years of experience building data pipelines, backend services and automation for enterprise clients in financial services, insurance, healthcare and commercial real estate. For more than five years at Bloomberg LP, has built and run the data platform behind threat and vulnerability management: ingesting scanner, asset-inventory and network data from many sources, reconciling it into one trusted data model, and producing the remediation and response-time metrics that security and engineering teams act on. Strong in Python, SQL, PostgreSQL, AWS and Django, with deployments containerized in Docker and automated with Ansible. Currently building AI tooling, including MCP servers and agent skills.

EXPERIENCE

Conflux Systems Inc. · Oct 2016 – Present

Feb 2021 – Present

Bloomberg LP · Vulnerability Management

Data Engineer

- Build and maintain the data pipelines behind the vulnerability management program, turning raw vulnerability and asset data into the metrics security and engineering teams use to prioritize and track remediation.
- Ingest and normalize data from multiple sources (Rapid7 Nexpose scan exports, the system-of-record (SOR) host inventory, network ping sweeps and load balancer configurations) into a unified PostgreSQL data model.
- Reconcile assets across sources by hostname, IP address and cloud instance ID to remove duplicates, attribute each finding to an owner, and flag hosts missing from inventory or scan coverage.
- Designed a two-phase pipeline to calculate Vulnerability Response Time (VRT): phase one enriches findings with asset context and exposure factor (for example, internet-facing behind a load balancer); phase two computes response times against remediation targets.
- Enrich findings with CVE and CVSS severity data and track each finding's lifecycle (first seen, last seen, remediated, reopened) to support aging, SLA-breach and trend reporting.
- Added data-quality checks that catch missing or unexpected inputs, such as unmapped exposure factors, so bad records are flagged rather than flowing into reported metrics.
- Track EC2 instances and machine images across AWS accounts using the AWS CLI, boto3 and STS assume-role, linking cloud assets and their images to known vulnerabilities.
- Built a Django web application, REST APIs and SQLAlchemy ORM models on PostgreSQL that give stakeholders self-service access to vulnerability and asset data, fed by cron-scheduled imports from external services with logging and monitoring on every run.
- Containerized the pipeline services and web application with Docker and automated server configuration and deployments with Ansible playbooks, giving consistent environments from development through production.
- Build AI tooling and services for the team, including Model Context Protocol (MCP) servers and agent skills that let AI assistants work with internal data and automate recurring workflows.
- Building a proof of concept for an MCP server over the team's databases, letting AI assistants query data directly through a standard interface instead of hand-written SQL.
- Work in Agile/Scrum with security, infrastructure and business stakeholders to turn requirements into data solutions, and coordinate with the offshore team on dependencies, risks and releases; documented the pipeline design with data-flow diagrams and pseudocode.

Python · PostgreSQL · MySQL · SQLAlchemy · Django · AWS · boto3 · Docker · Ansible · Rapid7 Nexpose · Shell · Linux/UNIX · Git · MCP

Aug 2020 – Feb 2021

Aflac Insurance · CCPA Automation

Software Developer

- Architected the automation flow that routes CCPA consumer requests through WireWheel instead of manual operator handling.
- Built REST services, internal API utilities and microservices that look up and return consumer information for privacy requests.
- Built services that automate previously manual claims-processing steps, and AWS Lambda functions that import external data.
- Used boto3 and AWS CLI assume-role across accounts to collect instance- and image-level information, run as weekly and monthly scheduled jobs.
- Stored system information for all AWS accounts in MySQL, creating schemas and tables programmatically with Python.

Python · Django · AWS · boto3 · MySQL · Oracle · Apache · Shell · Linux/UNIX

May 2019 – Jul 2020

Cushman & Wakefield · MarketBeat Automation

Software Developer

- Wrote Python and Groovy scripts to pull market data from Cushman & Wakefield APIs, using multithreading to load multiple endpoints in parallel.
- Configured Méthode action commands to run the scripts from report DWPs, and built input panels that pass user selections through the MMS server to the Groovy engine for API calls.
- Generated report charts with the Highcharts API, and transformed XML to HTML with XSLT to publish web reports to the Cobalt server.
- Set up the database on AWS RDS with backups to S3; used Django database APIs to validate and process files.

Python · Groovy · Java · Pandas · Highcharts · XML/XSLT · jQuery · AWS · Django · Tomcat · Maven · JUnit · Linux/UNIX

Apr 2018 – Apr 2019

Chubb Insurance · Personal Risk Services

Software Developer

- Developed dashboard features and application modules in Python and Django with Bootstrap, CSS and JavaScript.
- Built RESTful APIs and SOAP, REST and JSON integration scripts, including integrations with third parties.
- Created Python and Bash tools that made the call-center application and its operations more efficient.
- Mapped the backend to PostgreSQL with SQLAlchemy ORM models; moved data between sources with SQL Server Management Studio.
- Troubleshot and deployed fixes for the two main applications serving customers and the internal customer-service team.
- Refactored the project to be more RESTful and thread-safe, and expanded unit test coverage with PyUnit.

Python · Django · PostgreSQL · SQL Server · SQLAlchemy · JavaScript · HTML/CSS · Shell · Linux/UNIX

Oct 2016 – Mar 2018

Boston Medical Center HealthNet Plan · Senior Care Options

BI Developer

- Built database models, APIs and views in Python and Django, and Django forms to capture online user data.
- Built a PyQt desktop GUI for users to create, modify and view reports on client data.
- Queried MySQL from Python with MySQL Connector and MySQLdb; wrote a module to monitor Apache Cassandra instance status.
- Automated routine tasks with Python, Shell and XML tooling, and wrote unit and functional tests with unittest, unittest2 and mock.

Python · Django · PyQt · Pandas · MySQL · Cassandra · AngularJS · JSON · XML/XSLT · Shell · Git · JIRA

SKILLS

Languages	Python, SQL, Java, Groovy, JavaScript, Bash/Shell, R, MATLAB
Data & Analytics	Pandas, NumPy, SciPy, Apache Spark, Hadoop MapReduce, Kafka, PyTorch, scikit-learn, Matplotlib, Plotly, Seaborn
Databases	PostgreSQL, MySQL, Oracle, SQL Server, SQLite, MongoDB, Cassandra, HBase, Elasticsearch
Frameworks & APIs	Django, Flask, Pyramid, SQLAlchemy, REST, SOAP, JSON, XML/XSLT
Cloud & DevOps	AWS (EC2, S3, IAM, STS, Lambda, RDS), boto3, AWS CLI, Docker, Ansible, Git, GitHub, GitLab, cron, Linux/UNIX
AI Engineering	Model Context Protocol (MCP) servers, agent skills, LLM-backed services
Security Data	Rapid7 Nexpose exports, CVE/CVSS, asset inventory (system of record), vulnerability response time (VRT) metrics
Testing & Practices	Agile/Scrum, TDD, Pytest, unittest, mock, Selenium WebDriver, JUnit, JIRA, Bugzilla

EDUCATION AND CERTIFICATION

2017	Master of Science, Information Assurance, Wilmington University, USA
2013	Bachelor's Degree, Mother Teresa Institute of Science and Technology, India
Sep 2020 – Sep 2023	AWS Certified Solutions Architect – Associate