

Vamshidhar Reddy Ankenapalle

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SUMMARY

- Seasoned full stack developer with 8+ years of industrial experience in Designing, Development, Deployment, and maintenance of web apps based on Spring framework in Java and Django - Python platforms.
- Experience of programming using Object-Oriented Programming (OOPs) concepts and software development life cycle (SDLC), architecting scalable platforms, database design, and agile methodologies.
- More than 4 years of professional web apps development experience using Django and Flask, inclusive of experience in UI using JavaScript, AngularJS, and React-Redux.
- Experience in using frameworks and tools like Django, Flask, Django REST, Hibernate ORM, Spring.
- Experience working with Vagrant and Docker images and containers, and Ansible.
- Worked with Jenkins and CircleCI.
- Proficient knowledge in web services like Google Cloud and Amazon AWS Services.
- Worked with a variety of relational databases (RDBMS) like SQLite, MySQL, and PostgreSQL, and NoSQL DBs like MongoDB and Cassandra.
- Experience installing software using pip for Python libraries like BeautifulSoup, NumPy, SciPy, PySide, python-twitter, RabbitMQ, Celery, matplotlib, pandas, uuid, and followed PEP8 coding standards.
- Working on a new web app built in React and Redux using ES6.
- Experience using Spring libraries like Log4j, ANTLR, Maven, and Apache to enhance productivity and software quality.
- Worked with Spring Framework, J2EE Architecture, and Apache Tomcat Server.
- Experience in developing reverse proxies using NGINX and Ansible to manage end-user quarantine.
- Strong experience using REST Web Services for remote system communication, including development and testing.
- Installation, configuring, and working with OSX10 Sierra, Ubuntu 14/16, Fedora23, and Red Hat Enterprise Linux Server 5.0/6.0 on VMWare and standalone platforms.
- Familiar with Raspberry Pi and Raspbian OS for UART control.
- Experience using GIT version control and deploying with Heroku.

SKILLS

Programming Languages & Libraries: Python (Pandas, NumPy, Scikit-learn, XGBoost, Matplotlib, Seaborn, OpenCV)

Data Engineering & ETL: Apache Airflow, Apache NiFi, Apache Spark, Azure Data Factory, AWS Glue, Real-time & Batch Processing, Great Expectations, CI/CD Implementation (GitHub Actions, Azure DevOps)

Data Warehousing & Modeling: Snowflake (Snowpark, Streams & Tasks, Zero-Copy Cloning), Delta Lake, Redshift, Star Schema, Snowflake Schema, Data Vault 2.0

Cloud Platforms:

AWS: Lambda, S3, Glue, Athena, Step Functions, Kinesis, CloudFormation, IAM, CloudWatch, Lake Formation, ECR

Azure: Data Factory, Databricks, Synapse Analytics, Data Lake Storage Gen2, Purview, Functions, Key Vault, Monitor, Log Analytics, DevOps

Machine Learning & AI: Predictive Modeling, Statistical Modeling, Clustering & Classification, Computer Vision, Deep Learning, NLP, MLflow, Neural Network Optimization, Vector Embedding, Fine-tuning with Custom Data

Frameworks & Tools: TensorFlow, PyTorch, LangChain, LlamaIndex, Streamlit, Flask, REST APIs

Generative AI Technologies: OpenAI GPT Models, Llama2, Mistral, Google Gemini Pro

Databases: MySQL, PostgreSQL (PLSQL), MongoDB, ChromaDB, Pinecone

Data Visualization & BI: Power BI, Tableau, Streamlit

DevOps & Deployment: Docker, Terraform, Git, GitHub Actions, CI/CD Pipelines

Soft Skills: Analytical Thinking, Problem-Solving, Team Collaboration, Effective Communication

EXPERIENCE

Evernorth

July 2023 – Present

Sr. Python Full Stack Developer

- Designed and developed the backend server module for Evernorth's care management platform, focusing on high-availability healthcare microservices with secure PHI handling.
- Architected and implemented full-stack solutions using Python (Django, Flask) and React/Redux, integrated with PostgreSQL for EMR and claims data management.
- Developed and optimized Django ORM queries to support complex eligibility rules, provider lookups, and benefit validation workflows.
- Built and profiled Django REST APIs for real-time member insights and claims adjudication, ensuring HIPAA-compliant data access.
- Managed cloud-based application environments using AWS (EC2, S3, EBS), Docker, Vagrant, and Ansible for scalable deployment and rollback support.
- Automated task queues using Celery and RabbitMQ for asynchronous processing of prior authorization requests and lab result updates.
- Created Python-based data validation scripts to test eligibility logic and coverage response patterns for different payer rules.
- Worked with Splunk for monitoring logs, debugging server-level issues, and analyzing performance bottlenecks in production healthcare services.
- Implemented custom validation controls in forms for patient intake, appointment booking, and care plan documentation using Object-Oriented JavaScript.
- Developed ReactJS components (JSX, Props, Lifecycle methods) to build responsive UIs for member portals and clinical dashboards.
- Built and deployed Flask-based microservices on AWS EC2, facilitating claims status checks and lab integration APIs.
- Integrated views with Django view controllers to generate intuitive UI for provider search and benefit summaries.
- Employed CircleCI for CI/CD automation and Git for code versioning, ensuring zero-downtime deployments and fast issue resolution.
- Containerized application components and enabled load balancing between services using NGINX for consistent API performance.
- Led Django migrations to evolve the database schema for new EHR and member engagement features.
- Automated repetitive validation jobs using Python scripting, improving processing efficiency for claims pipelines.
- Used JIRA to manage sprints, prioritize bug fixes, and coordinate cross-team deliverables for HIPAA-compliant modules.
- Recommended scalable testing strategies for API endpoints, improving unit and integration test coverage in collaboration with QA engineers.

First Databank, Inc.

Feb 2021 – June 2023

Full Stack Developer

San Francisco, CA

- Designed and enhanced the admin module for FDB's medication intelligence platform, addressing critical issues and improving access control and workflow configuration.
- Developed and maintained secure, scalable backend services using Python and Django, integrated with MongoDB for managing medication alerts and formulary data.
- Built responsive Single Page Applications (SPA) using AngularJS, Bootstrap, and JavaScript APIs for real-time drug interaction and reference dashboards.
- Created optimized Django ORM queries to pre-load clinical content and reduce database I/O latency, enhancing data fetch performance for medical records.
- Used Docker and Ansible to manage healthcare app deployments across staging and production environments on AWS.
- Applied JavaScript validation modules for drug search forms, dosage alerts, and healthcare data entry to reduce manual errors and improve UX.
- Built dynamic Django view templates to enable structured access to formulary updates and customizable medication datasets.

- Processed time-series and tabular data using Pandas API, enabling timestamp tracking for patient-specific drug interactions, stored in MongoDB.
- Deployed and tested modular services using Docker containers, managed multi-container setups, and configured NGINX for effective load balancing and API routing.
- Implemented automation using Jenkins and Ansible to streamline deployment pipelines on Linux-based servers for continuous delivery of drug knowledge modules.
- Automated MySQL container deployments with Python scripts, including health checks and auto-recovery for database services.
- Used BeautifulSoup to extract and normalize drug classification information from external clinical data sources for ingestion into FDB's knowledge base.
- Uploaded containerized admin modules to AWS Elastic Beanstalk (EBS) and EC2, storing critical reference files in Amazon S3 buckets.
- Utilized Python scripting to automate healthcare report generation and content sync tasks, including integration with Raspberry Pi for system simulations and testing.
- Played a key role in leading a small module team, mentoring junior developers, and improving delivery velocity through agile planning and sprint retrospectives.

Casey's General Store

Jan 2020 – Feb 2021

Full Stack Developer

Ankeny, IA

- Developed and maintained web applications using Django and RESTful APIs for inventory, order management, and store operations.
- Built dynamic UI components using JavaScript, jQuery, and AJAX to support real-time product lookup and pricing updates.
- Wrote optimized SQL queries and implemented CRUD operations on MySQL to manage product, order, and store data.
- Utilized Django ORM and Database APIs to streamline backend integration with transactional retail datasets.
- Built reusable Database Mapping classes and class-based views to support pricing tiers and category hierarchies.
- Developed file handling logic to process .txt and .xlsx sales reports and transform them into structured formats.
- Leveraged Pandas, NumPy, and Pygal to analyze purchasing behavior and generate visual sales insights.
- Created custom unit and regression test frameworks to validate inventory logic and shift scheduling workflows.
- Ensured code quality and maintainability by following PEP8 guidelines and using pip for dependency management.
- Identified and resolved backend issues affecting checkout and transaction sync, improving system reliability across stores.

Gigstart

July 2018 – Jan 2020

Python Software Engineer

Delhi, IN

- Participated in all phases of the SDLC, including requirement gathering, system design, coding, testing, and deployment for internal CRM and partner onboarding systems.
- Designed and developed internal automation and API integration tools using Python, Bash, and RESTful services, streamlining call center data flows and support ticket processing.
- Built Python-based deployment and unit testing scripts, automating error checks and improving release reliability.
- Used Django, MySQL, and AngularJS to build a full-stack web app (Silent Circle Management System), integrating infrastructure and business logic layers.
- Implemented data migration pipelines from SQLite to MongoDB, ensuring seamless transition of time-series and structured data.
- Developed and maintained customer dashboards using Django, HTML/CSS, Bootstrap, and Highcharts for interactive data visualizations.
- Created data extraction and web scraping utilities using BeautifulSoup and custom Python scripts to support lead generation and research automation.

- Built and maintained networking features using Python socket programming for internal tools requiring secure communication via SMTP servers.
- Managed bug fixes, performance tuning, and deployment of critical features across two major platforms using Heroku, Django ORM, and Git-based CI workflows.
- Collaborated using Agile methodologies and participated in daily stand-ups, sprint planning, and backlog grooming with cross-functional teams.

Equinix

June 2017 – July 2018

Backend Developer Intern

- Developed backend services and contributed to hardware Web API integrations, while maintaining version control responsibilities.
- Leveraged modern technologies to enhance system features and extend existing service capabilities.
- Involved in all stages of the development lifecycle—from initial concept to production deployment and scaling.
- Built web applications using Python 2.7, Django 1.4/1.3, JavaScript, jQuery, XML, CSS3, HTML5, and DHTML for dynamic UI functionality.
- Specialized in creating consumer-facing features using Python, Django, and HTML, with experience in Behavior-Driven Development (BDD) and pair programming.
- Promoted software engineering best practices and mentored junior developers on clean code and agile workflows.
- Collaborated closely with project managers and leadership across departments to translate business requirements into scalable, efficient technical solutions.

EDUCATION

Master of Science, Data Science – University of Houston, 3.96/4.0

May 2025

Bachelor of Technology, Data Science and Artificial Intelligence – IFHE Hyderabad, 9.83/10

June 2018

CERTIFICATIONS

- **AWS** certified **Solutions Architect - Associate**
- **IBM** certified **Data Science Professional**
- Machine Learning A–Z™: Hands-On Python & R in Data Science
- **Microsoft** certified **DP-600** Fabric Analytics Engineer Associate