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# SUMMARY

# Full Stack Developer with 8+ years of experience in designing, developing, and maintaining web applications using Python (Django, Flask) across multiple industries.

# Strong in OOP concepts, system design, and SDLC, with experience architecting scalable platforms using modular microservices and clean architecture principles.

# Built responsive and interactive UIs using ReactJS, AngularJS, and React-Redux, integrating with backend services through secure API communication.

# Developed reusable React components with dynamic form handling and client-side validations to improve user experience and maintain consistency.

# Designed and implemented RESTful APIs using Django and Spring Boot, with support for real-time features and asynchronous processing.

# Worked with Celery, RabbitMQ, and Kafka to enable background jobs, scheduled tasks, and reliable event-driven communication between services.

# Integrated machine learning models into backend workflows for NLP and predictive analytics using libraries like scikit-learn and Transformers.

# Managed data across PostgreSQL, MySQL, and MongoDB optimizing performance with indexing, query tuning, and schema design.

# Deployed applications on AWS (EC2, S3, Lambda, Beanstalk) and Azure, leveraging serverless functions and cloud-native infrastructure.

# Created CI/CD pipelines with Jenkins, GitLab CI, and GitHub Actions, automating testing, containerization (Docker), and deployments (Kubernetes/ECS).

# Followed TDD practices using PyTest, unittest, and JUnit, ensuring high code quality and stability through unit and integration testing.

# Set up centralized logging and monitoring using ELK stack and Prometheus-Grafana to improve system observability and incident response.

# Collaborated in Agile/Scrum teams, participating in sprint planning, reviews, and Git-based workflows with pull requests and peer code reviews.

# SKILLS

**Languages:** Python, TypeScript, HTML5, CSS3, SQL

**Frontend:** ReactJS, AngularJS, Redux, Bootstrap, Material UI, jQuery, AJAX, JSON

**Backend & Frameworks:** Django, Flask, FastAPI, Django REST Framework, Node.js

**Database Technologies:** MongoDB, MySQL, PostgreSQL, TimescaleDB, InfluxDB

**Cloud Platforms:** AWS (EC2, S3, Elastic Beanstalk, Lambda), GCP, Azure

**DevOps & CI/CD:** Docker, Kubernetes, Git, GitHub, GitLab CI, CircleCI, Jenkins, NGINX

**Asynchronous Processing & Queues:** Apache Kafka, RabbitMQ, Celery, WebSockets

**Testing & Monitoring:** PyTest, Django TestCase, Mocha, Selenium (basic), Splunk, Grafana, Prometheus

**Machine Learning & Data Science:** Pandas, NumPy, Scikit-learn, PyTorch, NLP, ML pipelines, Data Cleaning & Preprocessing, Gen Ai, LLMs

**Tools & Methodologies:** JIRA, Agile/Scrum, Postman, RESTful APIs, Swagger, Behavior-Driven Development (BDD), Test-Driven Development (TDD)

# EXPERIENCE

## Evernorth July 2023 – Present

## Sr. Python Full Stack Developer Dallas, TX

## Project – Care Management Platform

## Description: As part of the Evernorth team, contributed to the design and development of a comprehensive care management platform aimed at improving clinical workflows and enhancing patient engagement. The system supported critical healthcare operations such as member onboarding, benefit validation, claims adjudication, and real-time provider search. The project significantly improved operational efficiency, reduced manual processing, and elevated the quality-of-care delivery.

## Developed responsive UIs for member portals and clinical dashboards using ReactJS (JSX, Props, Lifecycle methods), delivering intuitive user experiences across devices.

## Integrated React components with Django views, enabling seamless navigation for provider search and benefit summaries.

## Implemented custom validation controls using Object-Oriented JavaScript for patient intake, appointment booking, and care plan forms.

## Worked closely with UX designers to ensure accessibility compliance and cross-browser compatibility for healthcare interfaces.

## Designed backend microservices for care management platform using Flask, focused on claims status checks and lab integration.

## Built and optimized complex business logic for benefit validation workflows and provider eligibility using custom Python scripts.

## Developed and deployed asynchronous workflows for prior authorization using Celery and RabbitMQ, reducing processing time significantly.

## Implemented RESTful APIs with error handling and versioning for backend insurance modules.

## Used MongoDB for storing semi-structured coverage notes and unstructured authorization data.

## Managed cloud deployments on AWS (EC2, S3, EBS) using Docker for scalable environments and rollback support.

## Containerized components and configured load balancing via NGINX to maintain consistent API performance.

## Employed CircleCI for CI/CD automation, enabling smooth deployments with zero downtime.

## Used Git for code versioning and collaborated via GitHub for feature development and issue tracking.

## Worked with Splunk for production log monitoring, debugging, and identifying performance bottlenecks.

## Participated in Agile ceremonies using JIRA to track sprints, prioritize bugs, and align cross-team efforts.

## Advocated for test-driven development (TDD) practices and collaborated with QA engineers for quality assurance.

## Equinix Feb 2021 – June 2023

## Full Stack Developer Frisco, TX

## Project - Infrastructure Management & Automation Platform

## Description: As part of Equinix’s infrastructure engineering division, I contributed to developing a robust internal automation platform focused on provisioning hardware, monitoring system health, and streamlining configuration workflows across global data centers. The solution provided visibility into infrastructure metrics, supported secure controller communication, and enabled dynamic resource allocation and provisioning workflows with real-time telemetry.

## Built interactive internal dashboards using Angular and Material Design to visualize provisioning progress, server utilization, and configuration states across distributed environments.

## Developed UI workflows for operations teams to initiate provisioning jobs, filter inventory, and track system configuration updates with audit capabilities.

## Implemented reusable Angular components for hardware filters, dynamic forms, and topology visualization, improving usability and task accuracy.

## Designed and implemented backend services using FastAPI for automating infrastructure provisioning, managing device credentials, and triggering health checks.

## Wrote modular Python scripts to automate system initialization, network configurations, and hardware onboarding.

## Integrated WebSocket-based communication between backend services and controller interfaces to enable encrypted, low-latency telemetry.

## Built internal APIs for device registration, state reporting, and orchestration of provisioning workflows across global zones.

## Utilized Apache Kafka for queuing provisioning events, streaming infrastructure metrics, and asynchronously managing retry logic and error reporting.

## Designed schemas in TimescaleDB (PostgreSQL extension) for tracking device lifecycle data, and managed time-series log aggregation using InfluxDB.

## Provisioned virtual machines and services on Equinix Metal and Google Cloud Platform (GCP), ensuring availability and performance under growing infrastructure demand.

## Deployed containerized services using Kubernetes, managing pod scalability, service discovery, and resource limits across environments.

## Implemented CI/CD workflows with GitLab CI, automating build, test, and deployment stages for staging and production pipelines.

## Monitored service health and provisioning efficiency using Grafana and Prometheus, and configured alerting for critical provisioning failures.

## Participated in Agile development using JIRA, collaborating in sprint planning, retrospectives, and daily standups with globally distributed teams.

## Practiced Test-Driven Development (TDD) and worked with QA teams to define and maintain robust regression and integration test suites.

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## First Databank, Inc. Jan 2020 - Feb 2021

## Full Stack Developer San Francisco, CA

## Project - Medication Intelligence Platform

## Description: A clinical decision-support system delivering real-time drug interaction alerts, dosage prediction, formulary search capabilities, and clinical reference tools for healthcare providers. The platform integrated ML-based drug classification, NLP-based content parsing, and automated data ingestion for hospitals and EHR platforms. It streamlined workflows for dosage alerts, search capabilities, and data ingestion, significantly enhancing operational efficiency, data integrity, and clinical decision-making.

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## Built responsive single-page applications (SPAs) using AngularJS and Bootstrap, enabling real-time clinical dashboards that support drug interaction lookups, dosage alerts, and medication reference guides.

## Applied JavaScript validation modules to healthcare data forms for drug search, dosage alerts, and data entry—reducing manual input errors and improving user experience.

## Structured dynamic user views and permissions to accommodate varying levels of access for clinicians, pharmacists, and healthcare administrators within the platform.

## Developed RESTful APIs using Django for clinical rules management, drug interaction computation, and dosage alert generation based on real-time patient context.

## Leveraged PyTorch-based machine learning models to classify drugs using embeddings derived from known attributes, therapeutic classes, and regulatory groupings.

## Built natural language processing (NLP) pipelines to tokenize and categorize unstructured drug descriptions from external databases for improved formulary integration.

## Designed and maintained MySQL schemas for managing formulary updates, dosage ranges, interaction rules, and history tables used by admin modules.

## Scheduled and executed ingestion and cleanup tasks using RabbitMQ and Django-Q for background processing, improving data freshness and reducing latency in interaction lookups.

## Managed deployments on AWS (Elastic Beanstalk, EC2, S3) for clinical applications, with containerized modules and persistent reference data storage.

## Managed deployment of containerized Django applications using Docker, with routing via NGINX and deployment orchestration handled through AWS Elastic Beanstalk.

## Maintained version control using Git, following feature branching, release tagging, and PR review workflows via GitHub to ensure code stability and quality.

## Practiced Agile methodology, actively participating in sprint planning and retrospectives while implementing TDD with Django Testcase and custom Python-based test automation.

## Casey’s General Store July 2018 - Jan 2020

## Full Stack Developer Ankeny, IA

## Project - Retail Inventory and Operations Management System

## Description: An integrated platform supporting inventory tracking, product pricing, order processing, and visual sales reporting across multiple Casey’s retail locations. The system enabled real-time product lookup, pricing intelligence, employee scheduling, and automated restocking based on purchasing trends, reducing manual efforts and increasing operational throughput.

## Built interactive JavaScript-based UI modules for inventory search, product status updates, and real-time pricing configurations, ensuring seamless usability for in-store associates.

## Integrated jQuery and AJAX to enable asynchronous interactions across product detail pages and checkout workflows, supporting live data rendering and request handling.

## Designed custom modal interfaces and form validation scripts for stock management, price change approvals, and low-inventory notifications.

## Constructed reusable Django templates to dynamically render order confirmation pages, product categories, and scheduled promotions for retail leads.

## Developed Django class-based views and serializers to handle real-time order intake, returns, and transactional updates across multiple store locations.

## Developed Python-based file parsers to process daily sales reports (.txt and .xlsx), transforming raw inputs into structured Data Frames using Pandas and NumPy for data cleansing.

## Wrote optimized SQL queries and performed CRUD operations on MySQL to manage data for products, orders, and store metadata.

## Automated scheduled tasks to detect stock anomalies and trigger vendor reorder requests based on item velocity and historical demand patterns.

## Utilized Azure services such as Azure App Services, Blob Storage, and Azure Functions to host backend APIs, manage file uploads, and trigger automated workflows for retail operations.

## Packaged services with Docker and deployed using NGINX to route internal traffic across retail and admin control panels.

## Wrote unit tests using PyTest and regression tests to validate pricing logic, bulk uploads, and POS integration scripts.

## Collaborated cross-functionally with retail stakeholders to translate operational pain points into actionable technical improvements, reducing manual work by 40%.

## Gigstart June 2017 – July 2018

## Software Developer Intern Delhi, IN

## Project - Talent & Hardware Integration Platform

## Description: A web-based internal platform used for managing live bookings, artist schedules, and embedded hardware integration modules for event logistics. The system enabled admin-facing automation workflows and communication modules for real-time request handling.

# Assisted in designing and maintaining backend modules for scheduling and user authentication using Django’s built-in models and admin interface.

# Supported Web API integration tasks including route setup and parameter parsing for internal module communication using JSON payloads.

# Helped develop static frontend templates using HTML5, CSS3, and JavaScript for UI rendering, content updates, and interactive modals.

# Participated in code reviews, debugging routines, and learned core debugging patterns in Python and JavaScript under senior developer supervision.

# Practiced Behavior-Driven Development (BDD) through mock testing scenarios and contributed to writing functional tests that aligned with acceptance criteria.

# EDUCATION

**Master of Science, Data Science – University of Houston, 3.96/4.0 May 2025**

# CERTIFICATIONS

* **AWS** certified **Solutions Architect - Associate**
* Machine Learning A–Z™: Hands-On Python & R in Data Science