**​Mohan Kotni**

SR. PYTHON FULL STACK DEVELOPER

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**Objective:**

​​To obtain a challenging **Python Full Stack Developer** position in a dynamic and innovative organization, leveraging my **13+ years** of experience in designing scalable applications using Python (Django, Flask, FastAPI), modern JavaScript framework Angular, cloud-native architecture, and CI/CD pipelines. I bring deep expertise in building performant APIs, integrating databases, and delivering intuitive front-end experiences in agile environments.

**Professional Summary**

Accomplished Python Full Stack Developer with over 13+ years of hands-on experience in designing, developing, and deploying scalable web applications and microservices. Expertise in building RESTful APIs using Django, Flask, and FastAPI, complemented by rich frontend experience using Angular and React. Adept at integrating relational and NoSQL databases (PostgreSQL, MongoDB), deploying apps via Docker, Kubernetes, and CI/CD tools across AWS/GCP cloud environments.

Core strengths include:

* Backend Development: REST APIs with Django, Flask, FastAPI; Celery for async jobs; SQLAlchemy/ORMs.
* Frontend: Modern SPAs with Angular/React/TypeScript.
* DevOps: CI/CD with Jenkins, GitHub Actions, Docker, Kubernetes, Helm.
* Databases: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch.
* Cloud & Microservices: AWS Lambda, S3, EC2, ECS, CloudWatch, Pub/Sub; service-oriented architecture.
* Testing & QA: PyTest, Postman, Swagger, Selenium.
* Strong Agile team player with expertise in sprint planning, code reviews, and mentoring.

Shape

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**Technical Skills**

* **Programming Languages**: Python (3.x), JavaScript, TypeScript
* **Python Frameworks & Libraries**: Django, Flask, FastAPI, Celery, SQLAlchemy, Pandas, NumPy
* **Backend:** Django, Flask, FastAPI, SQLAlchemy, Celery
* **Frontend**: Angular, React, TypeScript, Bootstrap
* **DevOps:** Docker, Kubernetes, Jenkins, GitHub Actions
* **Cloud:** AWS (EC2, S3, Lambda, ECS), GCP (Pub/Sub, GKE)
* **Databases:** PostgreSQL, MySQL, MongoDB, Redis
* **Testing:** PyTest, Postman, Selenium, Swagger
* **Monitoring/Logging:** Prometheus, Grafana, ELK Stack
* **Tools**: JIRA, SonarQube, Postman, Swagger, Elasticsearch, Tableau

**Professional Experience:**

**​​Amazon Robotics, Boston, US**

**Sr. Python Full Stack Developer | Feb 2023 – Present**

**Responsibilities:**

* Developed microservices using Python FastAPI and Flask, integrated with MongoDB and PostgreSQL, enhancing scalability and maintainability across robot manufacturing modules.
* Implemented asynchronous task queues using Celery and Redis, reducing task execution time by 40%.
* Built real-time dashboards using React.js and Plotly.js to visualize production stats, warehouse movements, and delivery analytics.
* Used Docker & Kubernetes (EKS) to deploy containerized services in production.
* Integrated Kafka and RabbitMQ for reliable message queuing across service layers.
* Created robust RESTful APIs and documented them using Swagger/OpenAPI, improving cross-team collaboration.
* Designed backend services using Django/DRF and deployed on AWS with PostgreSQL and Kafka integration.
* Used AWS Lambda and CloudWatch for serverless processing and monitoring.
* Implemented automated testing using PyTest and integrated into GitHub Actions CI/CD pipeline.
* Designed and built a web platform to monitor e-commerce metrics like user engagement, product views, conversion rates.
* Backend developed in Django with DRF for APIs, Celery for background jobs (email alerts, PDF reports).
* Frontend in React with charts (Chart.js), real-time updates via WebSockets.
* Hosted on AWS EC2 with CI/CD pipeline via GitHub Actions and Docker.
* Implemented RBAC (role-based access control), JWT authentication, and encrypted storage for user credentials.
* Developed WebSocket-based real-time communication for telemetry monitoring of robotics fleet.
* Used SQLAlchemy ORM with Alembic for database migrations and schema versioning.
* Implemented Prometheus exporters for custom metrics in Python services.

**Biogen, North Carolina, US**

**Lead Python Full Stack Developer |June 2022 – Jan 2023**

**Responsibilities:**

* Led backend development using Django REST Framework to integrate Biogen’s drug supply chain systems.
* Built dynamic dashboards using Angular to visualize inventory, compliance, and shipment tracking data.
* Developed secure REST APIs for connecting internal ERP, CRM, and regulatory systems.
* Implemented JWT-based authentication and ensured HIPAA, GDPR, and FDA compliance.
* Deployed microservices using Docker on AWS ECS and managed databases via RDS (PostgreSQL).
* Conducted CI/CD integration using Jenkins and GitLab; set up monitoring with Prometheus and CloudWatch.
* Collaborated with cross-functional teams in Agile environments to deliver high-quality, scalable features.
* supply chain, integrating multiple internal systems (ERP, CRM, inventory), resulting in a 35% improvement in data processing speed and system efficiency.
* Built the frontend with Angular, providing real-time visibility into the supply chain, cold chain integrity, and inventory status, increasing user engagement by 40% and improving operational decision-making.
* Created responsive dashboards displaying key metrics such as drug inventory, supply chain status, and compliance, reducing manual tracking efforts by 30%.
* Applied Django signals for automated logging and email notifications in critical workflows.
* Optimized database access with Django ORM prefetch/select related patterns, improving API latency by 30%.
* Deployed FastAPI microservice for cold-chain tracking integration with IoT sensors.

**Dell Technologies**

**Application Architect |July 2015 – May 2022**

**Responsibilities:**

* Designed and implemented scalable, cloud-native applications using Python (Flask) and JavaScript (React).
* Developed SPAs using Angular and React, improving user task efficiency by 30% and reducing bounce rate by 25%.
* Migrated legacy monolith applications to microservices using Django and REST APIs.
* Led DevOps initiatives using Kubernetes (GKE), Jenkins, and Docker to streamline delivery pipelines.
* Integrated PostgreSQL, MongoDB, and Elasticsearch for backend persistence and search optimization.
* Developed SPAs using Angular and React, focused on user experience and performance.
* Mentored junior developers and led Agile ceremonies (sprint planning, code reviews, retrospectives).
* Architected CI/CD pipelines using GitLab and Jenkins for multi-cloud deployment across AWS and GCP.
* Architected and developed scalable, cloud-native applications using modern JavaScript frameworks (Angular, Node.js), achieving improved user experience and data management efficiency.
* Led data migration projects from legacy systems to cloud platforms, ensuring seamless data integrity and reduced migration risks.
* Mentored junior developers, fostering a culture of learning and collaboration, and enhancing team productivity by 30%.
* Designed RESTful APIs using Flask-RESTPlus with Swagger/OpenAPI 3.0 documentation for external partners.
* Built Python-based CLI tools to manage configuration and deployment workflows across environments.
* Integrated Sentry for exception tracking and real-time error reporting.

**IBM, New York, US**

**Python Developer |May 2012 – July 2015**

**Responsibilities:**

* Developed and maintained web applications using Django and Angular for enterprise barcode systems.
* Designed reusable Python modules and REST APIs for inventory, logistics, and packaging workflows.
* Integrated MongoDB and Redis for optimized data storage and real-time access.
* Built ICE Faces screens and transitioned legacy JSP pages to responsive Angular components.  
  Secured APIs using OAuth2 and implemented test automation using PyTest and Selenium.
* Collaborated with product and QA teams to deliver robust, scalable solutions under Agile methodology.
* Led improvements in the Packaging Module, optimizing product packaging processes and reducing assembly time by 20%.
* Played a key role in the Manage Barcode Project, designing, developing, and testing features that increased barcode scanning accuracy by 25%.
* Implemented ICE Faces screens for the Manage Barcode Project, enhancing user interface functionality and increasing user satisfaction by 30%.
* Led Python code refactoring initiative for legacy barcode processing modules, reducing technical debt by 40%.
* Wrote Python ETL scripts to transform and load data between logistics systems and reporting databases.

**Innominds, San Jose, CA**

**Java Developer |Dec 2009 – March 2012**

**Responsibilities:**

* Utilized Agile API to enhance system functionality, gaining advanced proficiency in Agile PLM Technology and facilitating seamless integrations.
* Led the design, development, and testing of the Queue Service Framework, improving task management efficiency by 30%.
* Engineered PL/SQL Stored Procedures for the Queue Service Framework, optimizing database performance and reducing query execution time by 25%.
* Developed and deployed AgileAsyncSWServices on Tomcat, improving system scalability and enabling real-time data exchange across the enterprise.
* Innovated Agile Attachment Utility/Custom UI, enabling advanced file operations and mimicking Agile’s OOTB features, improving user experience by 20%.
* Created a Custom UI web application deployed on WebLogic, enhancing user interface interactions and streamlining workflows with Agile URL PX.
* Integrated File Catalyst with Agile API calls to optimize data transfer speeds, increasing user satisfaction by 30%.
* Developed Groovy Scripts for platform code name validation in Agile, ensuring data accuracy and system reliability.
* Engineered web-based promotional functionalities for Dell products, increasing customer engagement by providing easy access to drivers and resources.
* Designed and developed UNCCleanup job, automating daily cleanup tasks for system optimization and improving operational efficiency.

**​Wells Fargo, IA**

**Java Developer | Nov 2007 – May 2009**

**Responsibilities:**

* Implemented Spring Dependency Injection using constructor injection, enhancing the modularity and testability of the application.
* Transitioned EJBs to Spring-enabled EJBs, improving system performance and simplifying codebase maintenance.
* Designed and developed a smart payment plan for ELC service, increasing payment processing efficiency by 20%.
* Developed and deployed the Bureau Retrieval System for Sales Express, improving data retrieval speed and accuracy by 30%.
* Designed and implemented an XML SAX parser, significantly improving data extraction and processing speed.
* Developed XSLT transformations, enabling seamless data transformation and integration across various systems.
* Contributed to the Service-Oriented Architecture (SOA) by implementing web services, enhancing system interoperability and scalability.
* Delivered client-specific requirements for MR2 & ILOL, successfully meeting project milestones and improving client satisfaction.
* Refactored services in Base Work to meet business requirements, optimizing system performance and maintainability.
* Utilized Find Bugs for code quality assurance, generating reports that identified and fixed potential bugs, improving software reliability.
* Developed JMeter scripts for performance testing, ensuring optimal application performance under varying load conditions.
* Used Eclemma for code coverage analysis, improving source code quality and test coverage across multiple components.

**Education​**

* Shape​​Computer Science​ from MK University, Master’s in Computer Applications ​​2001​
* Bachelor’s in science - Mathematics from Andhra University, 1998

**Certifications**

* AWS Certified Solutions Architect – Associate
* Agile Scrum Master Certification

**Key Achievements**

* Enhanced System Reliability: Reduced downtime by 25% at Amazon Robotics by implementing advanced logging (with ELK stack), monitoring (Prometheus, CloudWatch), and performance tuning in Python microservices.
* Faster Delivery Pipelines: Improved deployment speed by 30% by integrating GitHub Actions, Jenkins, Docker, and Kubernetes for CI/CD in Python-based services.
* User-Centric Interfaces: Increased customer engagement by 30% by delivering performant, responsive frontends using Angular/React integrated with Django and FastAPI backends.

**Professional Development**

* Active contributor to open-source projects built on Django, Flask, and FastAPI, with a focus on API design and system architecture.
* Frequent participant in industry events and webinars related to Python, backend scalability, microservices, and cloud-native technologies (AWS/GCP).