Vamshidhar Reddy Beecharla

Sr Software Engineer
Python | Fast API | Django | Microservices
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Location: Hyderabad

Results-driven **Python Developer** with **3.9 years** of experience in **backend development, microservices, and cloud-based solutions** using **Fast-API, Django, and Flask**. Skilled in designing scalable APIs, automating data workflows, and optimizing performance for enterprise systems. Proficient in **AWS, Azure, Docker, and CI/CD** with strong problem-solving and analytical skills. Currently expanding expertise in **AI/ML, Generative AI, and data-driven automation** to build intelligent and efficient applications.

Profile Summary:

- **Results-oriented Java Developer** with **3.9 years of hands-on experience** at **Tata Consultancy Services**, specializing in **Spring Boot, Microservices, and RESTful API development** for scalable enterprise applications.
- Proficient in **Core Java (OOPs, Collections, Exception Handling, Streams)** with a solid understanding of **design patterns**, **clean code practices**, and **object-oriented principles**.
- Experienced in **Spring Framework (Spring Boot, MVC, Data JPA)** and **Hibernate ORM**, ensuring high-performance and maintainable backend solutions.
- Skilled in **Microservices Architecture**, designing modular, fault-tolerant systems with effective **inter-service communication** and **API management**.
- Strong database expertise in **MySQL**, **Oracle (basic)**, and **SQL Server**, with proficiency in writing optimized **queries, joins, and stored procedures** for performance tuning.
- Hands-on experience with **CI/CD tools** such as **Jenkins**, **Git**, **Bitbucket**, **SonarQube**, and **Maven**, ensuring smooth build, test, and deployment pipelines.
- Familiar with **AWS services** (EC2, S3, IAM, Lambda - basic) for **cloud deployment**, scalability, and resource management.
- Proactive team player with strong **analytical thinking**, **problem-solving**, and **communication skills**, experienced in **Agile (Scrum)** environments for efficient project delivery and collaboration.

Technical Skills

- **Languages:**   **Python**, JavaScript, Java
- **Frameworks:**   **Fast-API, Django**, **DRF**, Flask, ReactJS
- **AI & Data Science:**   Pandas, NumPy, Scikit-learn, Generative AI (LLMs, Prompt Engineering)
- **DevOps & Cloud:**   AWS (EC2, S3, RDS, CloudWatch, Lambda), Azure (Functions, Blob, Pipelines)
- **Tools & Platforms:**   Docker, Git, Postman, Celery, Redis, APScheduler, Jenkins
- **Databases:**   PostgreSQL, MySQL, SQL Server
- **Testing:**   PyTest, UnitTest, Vitest
- **CI/CD:**   GitHub Actions, Azure DevOps
- **Version Control:**   Git, Bitbucket

Organizational Experience:

Senior Software Engineer | Stryv.ai | Nov 2024 – Present
Project: Blue Book Services (apps.bluebookservices.com)

- Migrated legacy monolithic system (C#) to Fast-API microservices, **developing 500+ APIs** and reducing technical debt.
- Optimized API performance achieving 35% latency reduction using Celery for asynchronous background tasks.
- Managed Azure cloud deployments, CI/CD pipelines, and **Blob Storage** integration.
- Designed and developed dynamic APIs, automated reports, and handled deployments across **Dev, UAT, and Production**.
- Delivered 20+ BBOS Monitor events, improving data accuracy and team collaboration.
- Converted SQL queries to **PostgreSQL**, enhancing **DB performance and maintainability**.
- Collaborated with cross-functional teams for design reviews, improving service reliability.
- Awarded Key Contributor Award for major BBOS module delivery and client appreciation.
- Built **automated ETL workflows** with **Python** parallel processing, cutting data processing time significantly.

Tech Stack: Fast-API, Django, Python, Celery, Redis, PostgreSQL, Azure, Docker, CI/CD, REST APIs

Software Engineer | SmallDay IT Services Pvt. Ltd. | Nov 2021 – Jul 2024
 Project: Online Coding and MCQ Test Platform (codexpro.ai)

- Designed and built a **coding assessment platform** using **Python, Django, React, and MySQL**.
- Implemented **dynamic, interactive coding interfaces** using ReactJS and REST APIs.
- Improved **data processing speed** by 40% through optimized use of **Pandas** and efficient query design.
- Automated test creation and result evaluation, reducing manual work by 60%.
- Implemented **anti-cheating features**, enhancing platform reliability.
- Deployed and scaled on **AWS and Docker Swarm**, achieving **70% faster deployments**.
- Integrated **AWS CloudWatch** for real-time monitoring and troubleshooting.

 Tech Stack: Django, DRF, ReactJS, Pandas, MySQL, Docker, AWS

Projects

Project 1: Blue Book Services (apps.bluebookservices.com)

Role: Senior Software Engineer / Lead Backend Developer
Tech Stack: Python, Fast-API, Django, Redis, PostgreSQL, Azure.

Project Overview:
A large-scale enterprise platform for supplier data, scoring, and compliance management in the food and produce industry. The system consists of **multiple microservices** such as **BBOS, Blue-Hub (Admin CRM), USDA, Scorecard, and Monitor** modules.

Key Responsibilities:

- Served as the **main backend contributor**, later leading backend development efforts across multiple BBOS microservices.
- Migrated the legacy **C# system** to **Fast-API**, developing **500+ APIs** and optimizing architecture for scalability and maintainability.
- Designed and implemented **asynchronous tasks and schedulers** to improve system responsiveness and background job efficiency.
- Automated **ETL pipelines** with Python multiprocessing, improving data processing speed and system throughput.
- Led the **integration of Monitor, Blue-Hub CRM and Scorecard modules**, ensuring seamless communication between services.
- Oversaw **Azure Cloud deployment**, and optimized containerized environments using Docker.
- Collaborated with cross-functional teams, conducted **code reviews**, and mentored junior developers.
- **Delivered 30+ BBOS Monitor events and reports**, improving data transparency and system automation.
- Worked directly with clients to gather requirements, troubleshoot production issues, and deliver enhancements on time.
- Received **Key Contributor Award** for excellence and leadership in BBOS module delivery.

Project 2: Online Coding & MCQ Test Platform (codeexpr.ai)

Role: Software Engineer / Core Developer
Tech Stack: Python, Django, DRF, ReactJS, Pandas, MySQL, AWS, Docker

Project Overview:
An online coding and MCQ assessment platform designed for technical evaluations with real-time coding environments, analytics, and automated test workflows.

Key Responsibilities:

- Acted as the **core backend developer**, handling full-cycle development from design to deployment.
- Designed and implemented **REST APIs using Django and DRF** for user management, test creation, and code execution.
- Built **real-time coding interfaces** with ReactJS and ensured smooth API integration.
- Optimized **data pipelines using Pandas**, enabling efficient processing of large datasets.
- Automated **test generation and result evaluation**, reducing manual workload by 60%.
- Implemented **anti-cheating mechanisms** and secure session management.
- Deployed and scaled applications on **AWS using Docker Swarm**, improving deployment efficiency by 70%.
- Integrated **AWS CloudWatch** for monitoring, ensuring system uptime and reliability.
- Collaborated **closely with frontend teams and clients to refine features and deliver production-ready solutions.**

CERTIFICATIONS

- Python Full Stack Development
- Python Program Expert
- Git Certification
- Postman API Certification

Awards & Achievements

- **Key Contributor Award** for BBOS Project – Excellence in delivery and client satisfaction.
- **Reduced API Latency by 35%** with optimized asynchronous execution.
- **Automated ETL workflows** for faster data processing.
- **Deployed scalable apps on AWS & Azure**, cutting deployment time by 70%.

Academic Details

- MCA from Yogi Vemana University in 2021
- B.Sc. in Computers from Yogi Vemana University in 2018

Personal Details

- **Date of Birth:** 19th Jun 1998
- **Languages Known:** English, Telugu & Kannada
- **Address:** Hyderabad