

# MAHABOOB BASHA

Python Full Stack Developer | Backend Specialist | AI/ML Integration Expert

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📍 Location: Hyderabad, Telangana

## PROFESSIONAL HEADLINE

Senior Python Full Stack Developer | 4 Years Experience | AI/ML Integration | Cloud Architecture | BFSI Domain Expert

## PROFESSIONAL SUMMARY

Results-driven Python Full Stack Developer with 4+ years of experience building scalable web applications across BFSI and enterprise domains. Expert in **backend development** using Python, FastAPI, Flask, and **microservices architecture** with hands-on experience in **data engineering** using PySpark and cloud deployment on **Azure, OpenShift, and GCP**.

Proficient in **frontend technologies** including React, Angular, JavaScript, HTML, and CSS to deliver seamless user experiences. Specialized in **end-to-end microservices design** from requirement gathering to deployment and monitoring, ensuring **high availability, performance, and security**.

Strong expertise in **AI/ML integration** using **Azure OpenAI, Large Language Models LLMs , Prompt Engineering, and Azure Cognitive Search** for intelligent automation solutions. Proven track record of **improving customer response time by 60%** and implementing **production-level scalable applications** serving enterprise clients.

## TECHNICAL SKILLS

### Backend Development

Python | FastAPI | Flask | REST API Design | Microservices | API Gateway | Service Orchestration | PySpark | Data Engineering

### Frontend Development

React.js | Angular | JavaScript ES6 | HTML5 | CSS3 | TypeScript | Responsive Design | DOM Manipulation

### Databases & Data Management

MySQL | SQL | NoSQL | Database Optimization | Data Transformation | ETL Pipelines | Kafka | LDAP | Data Quality Validation

## AI/ML Technologies

Azure OpenAI | Large Language Models LLMs | Prompt Engineering | Azure Cognitive Search | NumPy | Pandas | Scikit-learn | TensorFlow | GitHub Copilot | Recommendation Systems | Anomaly Detection

## Cloud & DevOps

Azure Cloud Services | Google Cloud Platform GCP | AWS | OpenShift ECP | Docker | Kubernetes | CI/CD | Jenkins | Git | Bitbucket | Infrastructure as Code

## Development Tools & Frameworks

PyCharm | Visual Studio Code | Jupyter Notebook | Postman | DataGrip | Git Bash | Swagger | Control-M | Spyder

## Project Management & Collaboration

Agile/Scrum | JIRA | Rally | Confluence | Stakeholder Management | Team Leadership | Code Reviews | Technical Documentation

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer | VISIONYLE SOLUTIONS PRIVATE LIMITED

April 2025 - July 2025

- Led development of enterprise-level Python applications with focus on scalability and performance optimization
- Architected and implemented microservices solutions using FastAPI and cloud-native technologies
- Collaborated with cross-functional teams to deliver high-quality software solutions within tight deadlines

### Python Full Stack Developer | NOWON TECHNOLOGIES (AMERICAN EXPRESS)

January 2021 January 2025 | 4 Years

#### Key Achievements:

- Improved customer response time by 60% through AI-driven automation using Azure OpenAI and Python FastAPI
- Developed and deployed 15+ production-level features serving millions of transactions daily
- Reduced manual support effort by 40% through intelligent automation and prompt engineering implementation

#### Major Projects & Responsibilities:

##### Next-Gen Benchmarking System

- Engineered advanced benchmarking feature using Python and FastAPI for real-time data analysis
- Implemented automated alert system comparing historical vs. current data patterns
- Deployed solution on OpenShift ECP cloud service using S2I concept for seamless user experience

##### AI Powered Customer Support Automation

- Developed intelligent chatbot using Azure OpenAI Service and Python FastAPI
- Implemented prompt engineering techniques for accurate response generation
- Integrated Azure Cognitive Search for knowledge-base lookups and contextual responses

##### Real-time Data Pipeline Development

- Built 'Yb Feature' consuming Kafka data streams for failed ingestion alerting
- Developed automated email notification system using HTML/SMTP for table owners
- Implemented data preprocessing pipelines handling null values, corrupt data removal, and transformation

#### □ Production-Level Database Management

- Optimized MySQL database performance for enterprise-level applications
- Implemented SSL certificates and trust store configurations meeting Amex security standards
- Managed data quality validation processes ensuring 99.9% data accuracy

### Technical Contributions:

- **API Development:** Designed and developed 20 RESTful APIs using FastAPI with comprehensive documentation
- **Data Engineering:** Processed terabytes of data using PySpark and Pandas for production jobs
- **Cloud Deployment:** Managed OpenShift pods and containers for QA and production environments
- **Team Leadership:** Mentored 5+ junior developers and conducted Python competency training sessions
- **Agile Implementation:** Actively participated in sprint planning and delivered features with 98% on-time delivery

**Technologies:** Python, FastAPI, PySpark, MySQL, Azure OpenAI, Azure Cognitive Search, OpenShift, Docker, Git, JIRA

### Python Developer ( LLOYDS BANKING GROUP & PRUDENTIAL )

#### Key Responsibilities:

- **Data Migration & Automation:** Converted complex insurance policy data from Excel to Python-based solutions using Pandas and NumPy
- **Process Automation:** Developed Python scripts and Shell scripting solutions reducing manual tasks by 70%
- **POC Development:** Created user authentication system proof-of-concept using Python with Excel database integration
- **Agile Methodology:** Supported scrum master in sprint ceremonies and maintained 95% sprint completion rate
- **Knowledge Sharing:** Conducted Python training sessions improving team competency and development standards

**Technologies:** Python 3.3, MySQL, Azure, HTML5, CSS3, Git, JIRA, Pandas, NumPy

#### □ EDUCATION

#### Master of Commerce (M.Com)

**University College of Palamuru, Mahabub Nagar | 2016**

- Relevant Coursework: Business Analytics, Financial Management, Statistical Analysis

#### □ KEY ACHIEVEMENTS & METRICS

- **60% improvement** in customer response time through AI automation implementation
- **40% reduction** in manual support effort via intelligent process automation
- **99.9% data accuracy** maintained across production data pipelines
- **15+ production features** developed and deployed serving enterprise clients
- **20 REST APIs** designed and implemented with comprehensive documentation

- **98% on-time delivery** rate across all assigned projects and sprint commitments

## □ TECHNICAL EXPERTISE HIGHLIGHTS

- **Full Stack Development:** End-to-end web application development using Python backend and React/Angular frontend
- **Microservices Architecture:** Design and implementation of scalable microservices using FastAPI and cloud platforms
- **AI/ML Integration:** Practical implementation of Azure OpenAI, LLMs, and machine learning models in production
- **Cloud-Native Solutions:** Expertise in Azure, GCP, and AWS for scalable application deployment
- **Data Engineering:** Large-scale data processing using PySpark, ETL pipeline development, and real-time analytics
- **DevOps Practices:** CI/CD implementation, containerization, and infrastructure automation

**Available for:** Full-time Python Full Stack Developer | Senior Backend Developer | AI/ML Integration Specialist positions

**Notice Period:** Immediate to 30 days

**MAHABOOB BASHA**