

Mukund Biradar

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Professional Summary

Ready to relocate - Munich

Senior Software Engineer with 12+ years of experience building and optimizing scalable systems, web applications and backend services. Proficient in Python frameworks (Django, Flask, FastAPI) with solid experience in RESTful API design, SQL/NoSQL databases and integration of secure, high-performance interfaces. Skilled in debugging, troubleshooting and performance tuning across Linux environments. Experienced in Agile teams, CI/CD automation and cloud platforms (AWS, Azure, GCP). Comfortable working in polyglot environments, adapting quickly to new languages and frameworks including JavaScript, TypeScript, HTML5 and CSS3. Applied generative AI and automation tools to streamline development workflows and improve productivity. Fluent in English; German (A2 – actively improving).

Skills and Technologies

- **Programming Languages:** Python, JavaScript, TypeScript, Java, PHP, Bash, ML, Generative AI, C++ (reading/understanding)
- **Operating Systems:** Debian GNU/Linux, Red Hat, CentOS, Ubuntu, Fedora
- **Frameworks and Libraries:** Django, Flask, FastAPI, Spring Boot, Pandas, NumPy
- **Databases:** PostgreSQL, MySQL, SQLite, Oracle, MS SQL Server, MongoDB
- **Cloud and DevOps:** AWS, Azure (basic), Google Cloud (familiarity), Alicloud, Docker, Kubernetes (basic), Ansible, GitHub Actions, GitLab CI/CD, Local Cloud
- **API Development & Testing:** RESTful APIs, OAuth, JWT Authentication, Unit Testing, Postman, PyTest
- **Automation and Scripting:** Python scripting, CI/CD pipelines, Server automation with Ansible, Kubernetes (Basic)
- **Data Engineering and BI:** PostgreSQL, MySQL, Oracle, Tableau, Power BI, DeepInsight
- **Software Architecture & Security Compliance:** Microservices, Monolithic architecture, Modular Code Refactoring, SSL/TLS configuration, Performance Optimization
- **Methodologies:** Agile, Scrum, Kanban, Jira, Git, Version Control

Professional Experience

Leibniz Rechenzentrum (LRZ)

Senior Python Developer / Researcher

Apr 2023 - Jun 2024

München, Germany

- Developed and maintained backend services using **Python, Django** and **Flask**, delivering **RESTful APIs** for microservices platforms with a focus on scalability, performance and maintainability.
- Designed and implemented **CI/CD pipelines** in **GitLab**, integrating **PyTest** and automated build/deploy processes to ensure code quality.
- Worked with React (basic) and TypeScript to build interactive dashboards and integrate with Python backend APIs.
- Developed automated tests in Python using PyTest and Robot Framework (basic), deployed on Debian GNU/Linux environments. Configured secure communication with TLS/SSL and PKI certificates.
- Refactored monolithic applications into modular **microservices**, improving maintainability and scalability.
- Applied functional programming techniques in Python for efficient **data processing** and **API logic** execution.
- Integrated secure cloud workflows with **AWS** and **Private cloud** solutions via **REST APIs**, using **Ansible** for server automation.
- Managed GitLab repositories for **version control**, **metadata management** and **automated testing**, supporting Agile-based research teams.

Abacus Staffing & Services Pvt Ltd (IBM Bangalore)

Python Lead

Jul 2022 - Feb 2023

Bangalore, India

- Led backend development teams using Python, Django, Flask and FastAPI to deliver quality solutions.
- Designed secure data pipelines for monitoring and analyzing API vulnerabilities, integrating TLS/SSL, PKI, and OAuth2 authentication.
- Automated workflows with 10+ Python scripts, reducing manual workload by 25+ hours/week.
- Built scalable deployment pipelines using Git, GitHub Actions, Ansible, Docker and Kubernetes (basic) to support cloud operations.
- Designed a secure token-based system to fetch and integrate data from Schellman into GitHub Issues for automated tracking.
- Enhanced CI/CD pipelines with automated tests (PyTest, Selenium) for increased stability and reliability.
- Worked with PostgreSQL, MySQL and Oracle databases for backend services.

BR Raysoft Global Pvt Ltd (Intel, Infosys)

Python Consultant (UI/UX)

Sep 2021 - Jun 2022

Bangalore, India

- Improved and fixed responsive UI/UX issues on Intel.com by enhancing existing web components using JavaScript, HTML, CSS and Coveo, resulting in a more seamless and user-friendly experience across devices.
- Developed Python scripts for web scraping, RSS/Atom feed parsing, and automated security data ingestion.
- Configured Coveo Search for indexing and metadata setup by integrating data from XML files, databases, Salesforce and Amazon S3 to ensure seamless content display including processor, software, graphics information and complete product listings.
- Developed Python scripts to fetch and separate data based on metadata, optimizing content accessibility on intel.com. Also optimize

d and expanded existing internal tools to improve processing speed and maintain functionality.

- Managed website content updates, indexing to ensure accurate publication and feature add based on Agile.
- Collaborated with global Intel teams to configure XML tags, fix metadata and standardize data formats using URLs, improving search accuracy via Coveo Search.

Sinomonitor International Pvt Ltd

May 2015 - Aug 2020

Senior Software Engineer

Beijing, China

- Led full lifecycle development of software applications, from requirements analysis and object-oriented design to coding, testing and maintenance, ensuring standards compliance.
- Designed intuitive UI, optimized performance and integrated systems, software analysis, quality assurance and project management to deliver robust solutions.
- Developed a Tableau-like platform enabling data retrieval from diverse databases, dataset storage and user-driven data cleaning for advanced chart and dashboard creation.
- Implemented unit, integration, and functional testing with PyTest, Selenium, Infrastructure as Code and Robot Framework.
- Developed scalable web applications using Django, PHP (Laravel, Core PHP) and JavaScript, integrating MySQL/PostgreSQL databases for robust performance. Built RESTful APIs and services for applications on proprietary private cloud infrastructure.
- Created data visualization dashboards using DeepInsight, Tableau and Power BI and developed ML-based video analysis tools for enhanced analytics.
- Additionally handled all business meetings, coordinated with stakeholders and managed travel logistics including visa arrangements for international engagements.

Develop Dreamz Industries Pvt Ltd

Feb 2014 - Apr 2015

Database Administrator (DBA)

Pune, India

- Designed and optimized database schemas for MS SQL Server, PostgreSQL, MySQL and Oracle, enhancing performance and scalability.
- Implemented query optimization techniques to improve database efficiency and support application performance
- Led database migration projects with zero data loss and configured Linux servers (Red Hat OS) for web hosting and application setups.
- Assisted developers in deploying .NET, Java and C++ project changes, managing server configurations and project setup responsibilities.

Psystems IT Services Pvt Ltd

May 2012 - Jan 2014

Database Engineer

Pune, India

- Designed secure database schemas for hospitality, healthcare and real estate industries, ensuring data integrity and compliance.
- Developed booking systems and CRM-based lead management systems to streamline client operations.
- Managed Linux server administration on Fedora, CentOS and RHEL, optimizing server performance and uptime.
- Provided technical support to developers, facilitating smooth application deployments and system integrations.

Education

University of Pune, Pune, India

May 2009 - May 2011

Master of Computer Science

- **Coursework:** CS Architecture, Algorithms, .NET, System Programming, OOPS, Databases, Advanced Networking, Data Structures (DSA)

Project – Personal

Project: PDF-Trained LLM (Language Model on Custom PDFs)

Description:

url: <https://github.com/mukund7296/pdf-trained-LLM>

Developed a Python-based system to train a lightweight LLM on custom PDF documents. The system processes, embeds and enables querying of All PDF content using document embeddings and interactive chat.

Key Features:

- Converts PDFs to text and splits into chunks
- Generates embeddings (--create-embeddings)
- Fully configurable (model, chunk size, training params)
- Trains LLM on PDF content (--train)
- Enables chat and Q & A on PDF data (--chat, --query)
- Modular CLI-based workflow

Example : Text → Tokenizer [IDs, IDs] → Neural Network [Content IDs] → Output [Prediction / Embedding / Response]

Certifications / LinkedIn Learning / Courses

- **ChatGPT Masters:** AI Prompt Engineering – 16 Hours course (2023)
- **Python Development:** Core and Advanced Python
- **Machine Learning:** Generative AI, Data Analysis with Pandas
- **Programming:** R, C, C++
- **Automation & DevOps:** Python Automation Testing, Ansible, CI/CD Pipelines, Git, GitHub, GitLab.
- **Cloud:** AWS, Alibaba Cloud, Docker, REST APIs
- **Project Management:** Kanban, Agile, Jira
- **Achievement & Posts :** <https://www.linkedin.com/in/mukund-techlead/>