


MUKUND BIRADAR

Software Engineer | Python Backend Developer

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 Hannover, Germany
- [Ready to Relocate]



Experienced Software Engineer with 12 years in the IT industry, **specializing in Python, backend development, Automation and cloud technologies. Skilled in developing scalable solutions and leading automation projects. Proficient in Django, Flask, REST APIs, SQL databases, Docker, Ansible and cloud services (AWS, Private). Extensive experience in end-to-end software development and adept at collaborating with dynamic, agile teams.** Strong commitment to quality, efficiency, and innovative problem-solving. **Seeking new opportunities in Europe (open to relocation near any country) to leverage my technical expertise and contribute to impactful projects.**



Employment

● **Leibniz-Rechenzentrum (LRZ) - Munich Garching, Bavaria**
[April 2023 – June 2024] Designation - Researcher

Dedicated professional with extensive experience in Research Data Management (RDM) and system development, gained during my tenure at LRZ. Specialized in handling high-performance computing (HPC) environments, data infrastructures and metadata workflows. Proven ability to contribute to collaborative research projects while supporting teams and users effectively.

Technical Proficiency:

- **Programming:** Python scripting (expert level), R, TypeScript (for front-end development), and Linux/Unix command-line operations.
- **Machine Learning:** Experience creating and validating ML models, including neural networks for complex systems like flow.
- **Cloud & DevOps:** Familiar with Microsoft Azure ecosystem, MLFlow, Docker on Windows and Linux and DevOps tools for CI/CD.
- **Data & Ontology:** RDF (Resource Description Framework), DataCite Ontology, S3 MinIO and metadata schema usage (e.g., DCAT).
- **Software & Tools:** GitLab, Ansible, OMERO, eLabFTW, and statistical/mathematical software (R and MATLAB).
- **Database Management:** Administration and optimization of SQL, NoSQL, and Java-based databases.

Key Responsibilities and Achievements:

- **Data Engineering & Visualization:** Designed data pipelines for efficient acquisition, processing, and visualization of large datasets.
- **Project Contributions:** InHPC-DE: Enhanced Python-based metadata extraction tools, developed RDF ontologies and format converters, documented workflows, and improved web interfaces using TypeScript.
- **PlantMicrobe-101:** Installed and tested RDM systems (eLabFTW, OMERO), documented GitLab-based infrastructures, and provided training to ensure user adoption.
- **EXA4MIND:** Integrated EXA4MIND with European Data Spaces, implemented S3 MinIO backend, and assessed the usage of DCAT metadata schema for interoperability.
- Automated server configurations and implemented centralized log monitoring using Ansible to streamline diagnostics across multiple systems.

● **Abacus Staffing & Services Pvt Ltd.**
[JULY 2022 – FEB 2023]

Bangalore, INDIA
Designation – PYTHON LEAD

DESIGNATION: PYTHON LEAD End Client : IBM Bangalore.

Python Lead with a proven track record of delivering scalable and efficient Python-based solutions. Experienced in guiding development teams, implementing automation strategies, and optimizing workflows for enhanced productivity and compliance. Strong background in GitHub automation and secure data management, with a focus on improving operational and security.



Languages

- English - Fluent
- German - A1 (Learning & Improving)
- Hindi - Native speaker



Education

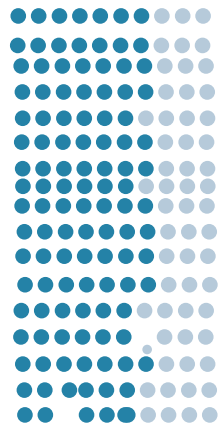
2009-2012 - **MASTERS OF COMPUTER SCIENCE**
(UNIVERSITY OF PUNE, INDIA)

2005-2009 - **BACHLORS OF COMPUTER SCIENCE**
(UNIVERSITY OF PUNE, INDIA)



Professional Skills

Python
Django & Flask
Gitlab & GitHub
Data Analysis
AWS & Ali cloud
Databases
DevOps (CI/ CD)
Automation, Ansible
RESTAPI
Databases
Docker
Unix & Linux
Kanban, Agile, JIRA



Certificate & Achievement

- ChatGPT Masters: AI Prompt Engineer
- Mastered Git and GitHub
- Python Core and Advanced
- Gerative AI
- Data Analysis Pandas
- R-Programming Lang
- Top 5 Machine learning libraries in Python
- C & C++ Programming Lang
- Python Automation testing

Experience & Overview

Key Highlights:

- **Leadership & Mentorship:** Successfully led development teams, driving project success through effective planning, execution, and collaboration.
- **Automation & Workflow Optimization:** Designed Python scripts for bulk document creation, workflow automation, and compliance enhancement. Automated the management of GitHub issues, labels, milestones, and comments, ensuring streamlined task handling.
- **Security & Compliance:** Oversaw automation tasks to maintain high standards in security and compliance, actively participating in team meetings to drive technical improvements.

Technical Skills:

- **Programming & Scripting:** Python, Shell scripting, Python automation scripts
- **Version Control & Automation Tools:** Git, GitHub APIs, GitHub Actions, ZenHub, Selenium, Postman
- **Project Management:** Workflow management, Github CI/CD, secure data handling, and compliance-focused automation

3. BR Raysoft Global Pvt Ltd
Bangalore, India.

Duration : [Sept-2021 - June- 2022]
Website : <http://www.brraysoft.com/>

DESIGNATION : SR . PYTHON CONSULTANT (UI/UX).

End Client : Intel & Infosys.

- **Intel Website:** Managed and developing UI/UX based on requirement, including the addition of FAQs and UI updates.
- **Intel Jobs Website:** Ensured accurate and timely publication of job data, managed UI tasks and maintained backend XML files.

Key Responsibilities

- Managed and developed content for all search, in Intel websites.
- Developed intuitive and responsive user interfaces using JavaScript, CSS and HTML within COVEO components.
- Merged XML files and performed indexing to publish data efficiently on the website, ensuring seamless content integration.
- Collaborated in Agile environments to iterate on design and functionality based on user feedback.
- Collaborated with multiple teams for project success and Implemented UI improvements and coding changes.
- Provided backend support and services.
- Conducted thorough analyses of software application functionality.
- Collaborated with software development teams, internal users and clients.

4. SINOMONITOR INTERNATIONAL
Beijing, China

Duration : [May-2015 - Aug-2020]
Website : <http://www.sinomonitor.com/>

DESIGNATION : SR . SOFTWARE ENGINEER

Results-driven Software Engineer with over 6 years of experience in software development, data analysis, and business intelligence (BI) visualization. Skilled in leveraging BI tools like DeepInsight, Tableau and Power BI to deliver insightful and actionable dashboards that support data-driven decision-making across industries. Experienced in developing and optimizing web applications using Flask and Django, with strong expertise in RESTful API creation, data management, and real-time query execution with PostgreSQL. Proficient in data mining, data cleaning, and connecting to diverse data sources for seamless integration and reporting. Known for exceptional problem-solving abilities, collaborating effectively in team environments, and providing 24/7 support when needed.

Technical Skills:

- **Programming & Frameworks:** Python, PHP, Flask, Django (MTV framework), Numpy, Pandas, C++
- **Business Intelligence & Data Visualization:** DeepInsight, Tableau, Power BI, Dashboard Development
- **Database Management:** MySQL, Oracle, SQL Server, PostgreSQL
- **Data Handling:** Data mining, cleaning, and connecting with various data sources
- **Programming Expertise:** Strong command of C++ and Python, crafting efficient, scalable software solutions tailored to meet complex needs.
- **Embedded Systems Mastery:** Hands-on experience working with Linux real-time operating systems, including developing drivers and handling fieldbus protocols.

Key Achievements:

- Built and optimized RESTful APIs to interface with PostgreSQL tables, enhancing efficiency in data management and real-time query processing.
- Designed customized DeepInsight Dashboards tailored to client requirements, focusing on data-driven storytelling and actionable insights.
- Managed comprehensive software development processes, including debugging, modernization, and scheduling enhancements, ensuring smooth project delivery and maintenance.
- Designed and validated machine learning models, including neural networks, for specialized systems such as flow and displacement machines.
- Collaborated with R&D teams to leverage data insights, enhance physical products, and deliver detailed reports and training materials for stakeholders.

Skills : PHP, Python, Flask ,Django, Numpy, Pandas , ML techniques, Tableau, Power BI. Data mining, cleaning , Dashboards ,Excel, MySQL, Oracle, SQL Server etc.

5. Develop Dreamz Industries Pvt Ltd.
Pune, India.

Duration : [Feb - 2014 - April 2015]
Website : <http://developdreamz.com/>

DESIGNATION : DATABASE ENGINEER(DBA)

Experienced Database Engineer with a strong foundation in designing, implementing, and managing database systems across diverse environments. Proficient in optimizing server performance, developing analytics tools, and creating dashboards to drive data insights. Known for a hands-on approach in overseeing all project phases, from design through implementation, while providing continuous support and collaboration with cross-functional teams. Skilled in maintaining database reliability, ensuring data integrity, and optimizing systems for high availability and performance.

Key Skills:

- **Database Management & Development:** MS SQL Server, PostgreSQL, MySQL, database design and optimization, data cleansing, and performance tuning.
- **Programming & Scripting:** PHP, HTML, JavaScript, Bootstrap for server-based applications.
- **Server Maintenance & Optimization:** Experience in both Linux and Windows environments, ensuring server integrity with daily backups and optimizations.
- **Analytical Tools & Dashboards:** Skilled in developing and deploying analytics tools, including traffic dashboards with detailed visualizations to aid decision-making.
- **Project Lifecycle Management:** Involved in all project phases, from design and development to testing and defect resolution, ensuring smooth project execution.

Key Achievements:

- **BHM Healthcare Solutions:** Successfully managed databases for private and home care services, maintaining high levels of reliability and efficiency in data operations.
- **Causect:** Developed robust analytics tools for website traffic, creating detailed dashboards with custom

Skills : PHP, Bootstrap ,PHP, My-SQL, Html ,Java script, Ms-SQL Server 2008,Linux and Windows.

6. Psystems IT Services Pvt Ltd
Pune, India.

Duration : [May -2012 - Jan-2014]
Website : <http://www.psystems.com/>

DESIGNATION : DATABASE ENGINEER

I'm an experienced Database Engineer with a strong track record of building and managing data systems across different industries, from hospitality to healthcare and real estate. I specialize in creating reliable, secure databases and integrating features that make these systems easy to use and maintain.

- **Pagoda Suites:** Built a complete booking system that includes payment processing and guest management. This project streamlined reservations and made the payment experience seamless.
- **Clinical Electronic Information Management (CEIM):** Worked on patient record modules, ensuring data accuracy and security protocols to protect sensitive health information.
- **Real Acquisitions:** Designed a lead management system with CRM functions and analytics, helping the team track leads and better understand customer trends.
- **Code Development and Testing:** Focus on writing clean, quality code that aligns with project goals, and I create visually engaging UIs using CSS and Bootstrap.
- **Problem-solving:** Regularly monitor system performance, troubleshoot issues promptly, and provide technical support to keep things running smoothly.
- **Collaboration:** Known for being a reliable team player who's ready to support colleagues anytime, ensuring projects stay on track.

Technical Skills: Oracle 10G/11G, MySQL, SQL Server, PHP, ASP.NET, IIS Server, Linux, Unix.

Hobbies : Traveling, tech blog exploration, photography, cooking, organizing, and hiking.

Statement of Declaration

I hereby declare that the information provided above is accurate and truthful to the best of my knowledge.

Location : Germany
Date : 25-01-2025

Name : Mukund Biradar