# RAHUL M BHAT

Software Development Engineer
(Backend)

## Details


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Bangalore

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## Technical Skills

**Programming**:
- Python
- OOPs Concept
- Data Structures
- Solid Design Principles

**Web Framework:**
- Flask
- Django, Django Rest framework
- HTML and CSS

**Database**:
- MySQL, Postgresql, MongoDB, Redis

**Deeplearning**:
- Tensorflow, Fastai and Opencv

**Others**:
- Docker, Git, Github, Postman, Jenkins, Pandas Dataframe, RedisJson

## Education

- **Manipal Institute of Technology (MIT)**
  *Bachelors of Technolgy*
  Completed in 2018
- **Mahatma Gandhi Memorial College Udupi**
  *Pre-University*
  Completed in 2014

## Achievements

- State level swimmer
- District level Cricket player

## Soft Skills

- Leadership and team management
- Exceptional communication skills
- Remarkable SDLC Management

## About Me

Experienced Software Developer with nearly 6+ years of expertise in designing and deploying scalable, efficient solutions. Proficient in Python, Django, and Flask, with a strong focus on backend development, application optimization, and system integration. Skilled in collaborating with teams to deliver innovative, user-centric products that meet business goals. Passionate about solving complex challenges through technology.

## Professional Experience

### Koshex | Software Developer Engineer II
*April 2023 – Present*

- Architected, built and maintained high-performance backend systems, ensuring scalability and reliability for Fintech applications.
- Developed advanced data calculation services for mutual funds with complex mathematical logic, enabling accurate analytics, reducing error rates by 30%.
- Optimized API response times by 50% through multithreading and efficient Pandas DataFrame operations improving request response timecycle.
- Enhanced database performance by implementing indexing and query optimization, reducing query execution times by 60% for large datasets.
- Implemented Redis caching for daily mutual fund performance data, cutting data retrieval times by 70% and reducing database load by 40%.
- Automated daily data processing for 12,000+ mutual funds using cron jobs and a write-through caching strategy, reducing manual effort by 100% and processing times by 50%.
- Built an automated email delivery system for monthly and quarterly reports, delivering 10,000+ reports to partners and investors.
- Authored Python scripts for debugging and automation, increasing development productivity by 25% and achieving 60% unit test coverage for critical modules.

### Software Engineer @ Flipkart / Teksystems
*July 2021 - December 2022 (1.5 years)*

- Developed and deployed an internal web application for streamlined operations using Django and Materialize CSS, enhancing user experience and team efficiency by 35%.
- Optimized platform performance by identifying and resolving critical issues in Python scripts and correcting database anomalies, reducing downtime by 40%.
- Automated complex workflows using Python, RESTful API integrations, and cron jobs managed via Jenkins and crontab.
- Designed and implemented 30+ Python scripts, with 18 fully automated, enabling seamless task execution and reducing manual intervention.
- Managed and monitored virtual machines, optimizing disk and memory usage to sustain peak performance during high-traffic periods, achieving a 25% improvement in resource utilization.

### Data Scientist @ Lincode Labs Pvt Ltd
*October 2018 - July 2021 (2.8 years)*

- Designed, developed, and deployed advanced computer vision and deep learning models tailored for manufacturing applications, reducing quality assurance (QA) time by 60% and increasing defect identification accuracy by 70%.
- Built scalable web APIs using Django to support seamless integration of AI-powered features into the company's product ecosystem.
- Implemented real-time inter-service communication with Redis pub-sub architecture, enabling efficient image transfer between services and real-time relay of predicted results to a dynamic dashboard.
- Optimized model performance by fine-tuning neural network architectures, reducing inference latency by 30% while maintaining high accuracy.