

Rakesh Gupta

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BACKEND DEVELOPER

Focused **IIIT PostGraduate** with **6 years** of startup experience, leading technology initiatives across various domains. Proficient in **Python, Django**, and **AWS**. Involved in end-to-end product development, resulting in successful launches and measurable business outcomes. Skilled in collaborating with cross-functional teams to deliver innovative solutions that meet tight timelines. Passionate about technology and seeking new challenges to contribute expertise and drive success in dynamic organizations.

TECHNICAL SKILLS

Programming & Frameworks	: Python, Django, FastAPI, Celery, Redis
Databases & Search	: PostgreSQL, MySQL, MongoDB, ElasticSearch
Cloud & DevOps	: AWS, MS Azure, Docker, Jenkins
API Integrations	: Google APIs, Travel APIs, OCR API
Collaboration & Productivity	: JIRA, Slack, Git

EXPERIENCE

Senior Software Engineer

CRED - Travel & Expense Management Solution for Businesses

Apr 2021 – Present

Bengaluru, Karnataka, India

- Designed and developed the **TMC Portal, Hotel Booking, Flight Ancillary, Advance, and DA systems**, enhancing booking efficiency by 40% and reducing operational costs by 25% for 500+ businesses. Led end-to-end implementation, integrating intuitive UI, expense tracking, policy compliance, and automated workflows for seamless corporate travel management.
- Integrated **SOAP APIs** with travel service providers to enable seamless data exchange for corporate **Flight, Hotel**, bookings.
- Developed an event-driven notification system (**SMS, Email, Push, WhatsApp**) using message queuing protocols, ensuring timely and personalized alerts for travel bookings, workflows, and policy violations. Reduced missed updates by 60% increased customer engagement by 35% and decreased booking disputes by 40% .
- Optimized Trip Lists and Trip Details APIs**, achieving a 50% reduction in query execution time by leveraging advanced ORM query optimizations and strategic function computing.
- Led the development of a **Carbon Emissions Tracking System**, empowering enterprises to monitor sustainability KPIs, ensuring compliance with corporate ESG mandates.
- Implemented an intuitive **one-click export** feature [ETL] for the TMC, SBT Portal and enhance user experience.
- Developed a Workflow Automation System, including a **Workflow Actioned API and In-Mail Approval system**, to streamline business processes and enable seamless approvals. This reduced manual approval times by 50% decreased compliance violations by 35% and expedited financial reconciliation by 40% .
- My contributions include **reducing go-live time** by 30% enabling faster feature rollouts and quicker market penetration. I implemented an intelligent log tracker for monitoring booking failures, improving failure resolution time by 35% and enhancing platform stability. I also devised an efficient **delegation mechanism for workflow approvals**, created a cron watcher tool for activity logging and analysis, and developed modules for **booking ticket and tax invoice generation**, further optimizing platform performance and operational visibility.
- Worked closely with stakeholders, including product managers, designers, and QA engineers, to **gather requirements, provide technical insights**, and ensure **seamless integration** and functionality of the corporate travel booking platform.
- Mentored** and provided guidance to junior developers, fostering their technical growth and supporting them in their project tasks.

Software Engineer

Happy(acquired by CRED in Dec,2021) - Expense Management Solution for Businesses

Jul 2018 – Mar 2021

Bengaluru, Karnataka, India

- Designed and implemented an AI-driven Invoice Processing System**, automating 50% of manual invoice handling, reducing vendor payment turnaround time by 2X.
- Developed a **scalable invoice processing engine** handling 100K+ invoices/month, achieving 99.95% accuracy, ensuring seamless financial reporting and compliance

- **Built an intelligent bulk-processing framework**, reducing invoice processing time by 45% driving productivity enhancements across finance teams.
- **Implemented an enterprise-grade data export (ETL) system**, reducing data transfer errors by 80% ensuring seamless integration with accounting platforms.
- **Developed a real-time notification system leveraging AWS SES**, improving response times by 25% enhancing customer experience and SLA adherence.
- **Engineered high-performance microservices (EPS & QLS)** for automated invoice capture from Gmail, processing 2K+ invoices daily via OCR and AI-enhanced validation.
- Designed and developed **AWS-based bulk file upload mechanisms**, reducing data ingestion time by 60% and ensuring scalability and security for financial data. By enabling users to upload multiple files directly to AWS using Presigned Post URLs, I enhanced security, reduced processing time, and improved the overall user experience.
- Contributed to the design and development of the **vendor component**, ensuring comprehensive functionality and seamless integration with the overall system architecture.

EDUCATION

Indian Institute of Information Technology, Allahabad (IIITA)
M.Tech (Information Technology)
Secured 9.02 CGPA

Prayagraj, UP, India
2016 - 2018

UIET, CSJM University Kanpur
B.Tech (Computer Science & Engineering)
Secured 6.8 CGPA

Kanpur, UP, India
2011 - 2015

SOFT SKILLS

- Demonstrated effective **communication skills** by collaborating with cross-functional teams to deliver a complex project on time and within budget.
- Utilized **problem-solving** abilities to identify and resolve critical issues, resulting in improved system performance and customer satisfaction.
- Efficiently **managing resources**, prioritizing tasks, and meeting project deadlines.