



Avnish Kumar

Contact

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Skills

- **Microservices Architecture:** Transition from monolithic to microservices architecture.
- **Programming Languages:** Python (Proficient), Golang (Beginner), JavaScript (Vanilla JS).
- **Web Development Frameworks:** Django, Flask, Django Rest Framework (DRF).
- **Backend Technologies:** Celery, Celery Beat, Rabbit MQ
- **Database Technologies:** RDBMS: PostgreSQL, MySQL
NoSQL: MongoDB
- **Containerisation:** Docker
- **AWS Services (Amazon Web Services):** S3, SES, SNS, KMS, Cloudwatch, Lambdas, and Batch Jobs for serverless frameworks.
- **Frontend Technologies:** Vanilla JavaScript, HTML/CSS.
- **Search Engine:** In-Memory Database (Manticore), ElasticSearch

Professional Summary

Professional Summary:

- Seasoned Python Developer with expertise in web application development using Django, Django Rest Framework (DRF), Flask, and Python scripting.
- Proficient in crafting efficient ingestion frameworks with ETL mechanisms, leveraging tools like Scrapy for web scraping, and adept at working with various technologies, including RDBMS, NoSQL databases, Docker, task schedulers, message brokers, caches, and search engines.
- Specialized in developing web applications for diverse domains, including SAAS, Healthcare, Hospitality, Service, and Travel & Expense Management.
- Demonstrated ability to adapt to different tech stacks, temporarily incorporating Vanilla JS and Golang when project requirements demand.
- Committed to continuous learning, swiftly acquiring fundamentals of additional technologies to maintain a comprehensive and versatile skill set.
- Proven track record of delivering optimal solutions in diverse development scenarios, contributing to the success of projects throughout the Software Development Life Cycle (SDLC).
- Renowned for dynamic adaptability, comfortable working both as an individual contributor and as an integral part of a collaborative team.

Experience

Software Engineer

LiftLab | Pune, India | Mar 2023 - Current

Ingestion Framework Development:

- Spearheaded creation of a robust serverless ingestion framework for ad platforms' report data, reducing data processing time by 30% and achieving efficient retrieval, transformation, and secure storage on S3.
- Integrated PostgreSQL database and implemented AWS Batch job invocation, streamlining data management and reducing manual intervention by 40%.

- **Geographic Information Systems (GIS):**GeoDjango & Postgres GIS
- **Payment Gateway Integration:**Stripe.
- **Cache Implementation:**Redis Cache, MemeCache.
- **Operating Systems:**Worked extensively on Linux and Mac OS.
- **Version Control:**Proficient in version control using Git, ensuring collaborative development and codebase management.

Education

ITM UNIVERSITY

GWALIOR

Bachelor of Technology:

Computer Science &

Engineering(CSE)

2018

- Engineered effective retry mechanisms, addressing API errors and reducing data processing failures by 25%.
- Implemented exponential back-offs, enhancing framework responsiveness under challenging conditions and improving overall system reliability.

Lambda Development for Ad Platforms:

- Designed and implemented multiple Lambda functions for read and write operations on various ad platforms, automating processes and reducing manual effort by 35%.
- Automated synchronization, creation, and updates of Ad Groups, Campaigns, and extraction of Campaign and Ad Groups Reports.

Data Onboarding Automation:

- Developed Lambdas for downstream processes, reducing data onboarding time for new and existing customers by 40%.

Manual Authentication Process:

- Pioneered design and development of a secure Manual Authentication Process for client authorization on ad platforms, enhancing security and compliance standards.
- Implemented a non-intrusive security approach, utilizing KMS encrypted long-lived tokens instead of storing login credentials, improving overall data security.

Key Achievements:

- Streamlined ingestion framework, resulting in a 30% reduction in data processing time and improved data accuracy.
- Improved system resilience by implementing effective retry mechanisms, reducing data processing failures by 25%.
- Enhanced Lambda functions for efficient read and write operations on ad platforms, automating processes and reducing manual effort by 35%.
- Reduced data onboarding time for new and existing customers by 40%.

Associate Software Engineer

Biddano | Pune, India | Nov 2021 - Jan 2023

Product Development and Feature Integration:

- Led end-to-end creation of products, integrating new features, resulting in a 50-60% increase in user engagement and satisfaction.
- Established a foundation for innovative product development, contributing to a 25% growth in system capabilities and overall market competitiveness.

Microservices Architecture Implementation:

- Orchestrated the successful transition from a monolithic structure to microservices, improving system flexibility and maintainability by 30%.
- Enhanced scalability, resulting in a 25% reduction in infrastructure costs and improved adaptability to changing business needs.

Bug Fixes and Issue Resolution:

- Addressed and resolved software bugs promptly, ensuring a 20% increase in system stability and reliability.
- Maintained high software quality standards, resulting in a 15% reduction in post-release bug reports.

Web Socket Implementation for Live Location Tracking:

- Spearheaded the implementation of Web Sockets, enabling real-time location tracking for riders and contributing to a 25% improvement in overall rider experience.
- Reduced service response time by 30%, leading to more accurate and timely location updates.

Documentation, Analysis, and Performance Enhancement:

- Conducted comprehensive documentation and analysis for existing processes and APIs, reducing onboarding time for new developers by 30%.
- Implemented performance enhancements, optimizing overall system efficiency and responsiveness, resulting in a 25-50% faster system response.

Geo Spatial Module Development:

- Engineered Geo Spatial modules, creating a suite of APIs and logics, including server-side Geo Fencing at multiple levels, improving geographical functionalities by 25%.
- Contributed to a 20% increase in location-based services, enhancing the overall user experience.

API Design and Optimization:

- Designed APIs and implemented optimization strategies for enhanced performance, resulting in a 40% reduction in API response time.
- Created a Product Search Engine using In-Memory Database (Manticore) and Golang, achieving a 50x improvement in search functionality.

API Latency Reduction and Migration:

- Achieved a substantial reduction in API latency from 500-700 ms to 10-40 ms through meticulous optimization efforts.
- Successfully migrated APIs from Django to Golang, enhancing overall system efficiency and reducing infrastructure costs by 25%.

Report Generation Module and Collaboration:

- Devised software modules for report generation, contributing to informed data analysis and decision-making processes.
- Collaborated closely with product owners to align functionality with business objectives, resulting in a 20% increase in user satisfaction with reporting features.

Technology Adoption and Innovation:

- Proactively researched and adopted new technologies, adding value to existing offerings.
- Contributed to a 20% increase in system performance and efficiency, fostering innovation and staying current with industry trends.

Senior Software Engineer

ITILITE | Bengaluru(Remote), India | Aug 2021 - Nov 2021

Self Subscription and Autobill Module Development:

- Engineered the backend for the Self Subscription and Autobill module within an impressive timeframe of 1.5 months.
- Achieved a 50% reduction in subscription processing time through meticulous documentation, planning, analysis, and robust development.

Billing Cycle Management:

- Provided support for both monthly and annual billing cycles, implementing features such as auto payment deduction and seamless subscription renewal or cancellation.
- Enhanced user experience, resulting in a 25% increase in customer satisfaction with billing processes.

Microservices/API Development:

- Spearheaded the creation of various microservices and APIs for the initial version (V1), contributing to a 20% improvement in overall system architecture and functionality.
- Facilitated future scalability, reducing development time for subsequent versions by 25%.

Payment Gateway Integration:

- Orchestrated the seamless integration of the Stripe Payment Gateway, ensuring a secure and efficient payment processing system.
- Contributed to a 30% increase in successful payment transactions, improving overall financial efficiency and customer trust.

Associate Software Engineer

Tarams | Bengaluru, India | Nov 2019 - Aug 2021

Collaborative Solutions for Mission-Critical Applications:

- Collaborated closely with business analysts to deliver high-availability solutions for mission-critical applications, ensuring seamless integration and functionality.
- Achieved a 20% improvement in system reliability and reduced response time by 15% through collaborative problem-solving.

End-to-End System Development and Support:

- Led the design and development of a clinical pharmacology system from scratch for a prominent Mexican healthcare provider (Christus Group).
- Successfully implemented end-to-end system development and support, resulting in a 30% improvement in overall system efficiency.
- Project included comprehensive system analysis, documentation, testing, implementation, and user support for platform transitions.

Full Product Lifecycle Implementation:

- Successfully implemented multiple products from inception to completion, covering the entire product lifecycle.
- Demonstrated expertise in design, development, testing, and deployment, contributing to a 25% reduction in time-to-market for new products.

Enhancements and Infrastructure Improvements:

- Contributed to system improvements by integrating new features and optimizing infrastructure.
- Enhanced overall system performance and capabilities, resulting in a 20% increase in user satisfaction and improved system scalability.

Problem Diagnosis and Solutions:

- Diagnosed root causes of problems within the systems and adeptly identified and implemented appropriate solutions.
- Ensured system stability and reliability, reducing system downtime by 20% and improving overall user experience.

Associate Software Engineer

AxisRooms, AR Hospitality Solutions | Bengaluru, India | Dec 2018 - Nov 2019

OTA Scraping and Module Development:

- Engaged in the development of a scraping module designed to extract data from multiple Online Travel Agencies (OTAs), significantly enhancing data acquisition capabilities.
- Contributed to a 40% improvement in data acquisition speed, positively impacting real-time decision-making processes.

Debugging and Issue Resolution:

- Analyzed and resolved root causes of issues through systematic debugging, ensuring the smooth operation of systems.
- Achieved a 25% reduction in system downtime by implementing proactive debugging and issue resolution strategies.

Documentation, Analysis, and Module Creation:

- Executed comprehensive documentation, analysis, and the creation of new modules from the ground up.
- Contributed to the expansion and improvement of the system's functionalities, resulting in a 30% increase in overall system capabilities.

System Analysis and Performance Enhancement:

- Conducted thorough system analysis and implementation strategies, resulting in a remarkable performance improvement of scrapers by up to 60%.
- Achieved a 20% reduction in data processing time through systematic performance enhancements.

Revenue Management System Expertise:

- Applied expertise in revenue management system predictions and calculations, contributing to accurate forecasting and strategic decision-making.
- Improved revenue prediction accuracy by 15%, enhancing overall financial forecasting.

Project Management and Infrastructure Handling:

- Led an entire project independently, managing all aspects from development to training newly joined developers.

- Successfully navigated the project during a critical phase of substantial customer base growth, optimizing existing infrastructure to handle increased loads.
- Ensured uninterrupted service delivery, resulting in a 30% increase in customer satisfaction and sustained business growth.

Certifications

- **Python Programming: Beginner - Dataquest.io** Verify this certificate at https://app.dataquest.io/view_cert/RNXV00K41STMMQT4UP
- **Python for Data Science: Fundamentals - Dataquest.io** Verify this certificate at https://app.dataquest.io/view_cert/ZT8X0PFJAK1J58NQSH
- **Python for Data Science Intermediate - Dataquest.io** Verify this certificate at https://app.dataquest.io/view_cert/GQ1WIY2PTH15GP84VO
- **Cutshort Certified Go Programming (Golang) - Basic - Cutshort** Certification ID: 73741
- **Cutshort Certified Django - Basic - Cutshort** Certification ID: 73742