

Mitul Shah

Tech Lead - Backend

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Executive Summary

Results-driven Tech Lead with 14+ years of expertise, including over 10 years in fast-paced, product-based startup industries. Proven leader in architecting and scaling Python applications, building and managing full-stack teams to deliver robust platforms from concept to production. Deep technical proficiency in Django, Flask, and the AWS stack, combined with a strategic mindset for designing scalable architectures, ensuring application security, and optimizing database performance (Redis, Celery) to translate complex business goals into high-availability, cost-effective solutions.

Technical Skills

Languages Python, SQL, JavaScript, HTML/CSS

Frameworks Django, Fast API, Django Rest Framework (DRF), Flask, Celery

Databases Postgres, MySQL, Redis, AWS RedShift, AWS DynamoDB

Cloud & DevOps AWS (EC2, S3, ECS, Fargate, Lambda, SQS, RDS, API Gateway, CloudWatch), Docker, Linux, Swagger, RabbitMQ

Data & Libraries Pandas, NumPy, NLTK, Text Mining, Sqlalchemy

Core Expertise System Architecture & Scaling, Database Optimization, Application Security, Agile Methodologies

Professional Experience

Apr 2021 – Present **Tech Lead, MoveEasy (Acq. by AppFolio), Product-Based Startup, Remote - USA**

- Solely architected and built the entire greenfield backend for a comprehensive CRM platform (Django Rest API, Postgres) from the ground up.
- Scaled the platform to support over 0.5M realtors, 3,000+ daily calls, and 10,000+ daily orders, demonstrating high reliability and performance.
- Subsequently managed a full-stack team (Python/Django, JavaScript, QA) to expand platform features, overseeing the project lifecycle and code reviews.
- Engineered the platform to manage complex order funnels for 15+ services and 300+ providers, including scalable database design and custom API development.
- Optimized platform performance and database queries, leading to a 30% reduction in API response times and improving overall user experience.
- Built and integrated automated commission calculation modules and key performance reporting dashboards, providing critical insights for management.
- **Tech Stack:** Python, Django, Rest API, RabbitMQ, Postgres, AWS Services, Pandas, JavaScript, HTML

Aug 2017 – **Tech Lead, Coverfox Insurance, Product-Based Startup, Mumbai, India**

- Mar 2021
- Led the Motor Insurance vertical, managing all technical operations, infrastructure, and integrations with 23+ insurance partners.
 - Orchestrated the development of a new Group Insurance platform from concept to production, utilizing Python, Docker, and AWS.
 - Drove initiatives in code optimization and infrastructure scaling (AWS ECS/Fargate), directly contributing to a 20% reduction in operational costs.
 - Translated complex business requirements into scalable technical solutions, designing systems to handle custom discount rates for new partners, dealers, and agents.
 - Enforced high code quality standards through rigorous peer reviews and implemented code optimization strategies to improve platform robustness and performance.
 - Spearheaded the creation of key modules, including policy renewals, instant renewals, and third-party website integrations.
 - **Tech Stack:** *Python 3, Django, Flask, DRF, Docker, Celery, Redis, SQLAlchemy, AWS (ECS, Fargate, Lambda, SQS, RDS, CloudWatch, S3)*

Jun 2015 – **Senior Python Developer, EXL Services, , Ahmedabad, India**

- Aug 2017
- Delivered data-driven analytics tools that provided actionable insights for clients, directly influencing their marketing spend and business strategies.
 - Developed and supported multiple data-driven projects for enterprise clients, including Nordstrom and major financial institutions.
 - **Marketing Analytics:** Built a campaign analytics dashboard (Flask, EC2, RedShift) to calculate and visualize metrics for Facebook and Taboola. Developed data-cleaning EMR processes for user behavior tracking.
 - **Forecasting:** For Nordstrom, developed Python processes for Click-Through Rate (CTR) benchmarking and forecasting site traffic, orders, and demand.
 - **NLP/Sentiment Analysis:** Engineered a sentiment analysis tool using NLTK for text summarization, performing entity recognition, POS-tagging, and categorization on a 200,000+ word dictionary.
 - **FinTech Platform:** Led development of 'Meta Funding,' a web platform (Django) connecting lenders and small businesses, integrating QuickBooks API for financial analysis.
 - **BI Reporting:** Developed a performance metrics platform (Django, MySQL) for a credit union to analyze loan portfolio performance.

Sep 2012 – **Python/PHP Developer, Simform Solution, , Ahmedabad, India**

- May 2015
- Developed and maintained full-stack web applications for multiple clients, utilizing Python (Django) and PHP for backend logic.
 - Rapidly progressed to a senior role, successfully managing client relationships and delivering projects that met and exceeded business objectives.
 - Promoted from Junior to Senior Developer, taking on increased responsibility for project architecture, management, and direct client communication.

Education

2008 – 2012 **Bachelor of Engineering, Information Technology, Gujarat Technological University, , Ahmedabad, India**