

Harsh Shah | Senior Software Engineer

Proven track record delivering scalable architecture, performant APIs, and reliable systems across 5+ years of design, implementation, optimization and deployment

PROFESSIONAL EXPERIENCE

Senior Software Engineer, Partners Capital BOSTON, MA (September 2024 - November 2025)

- Architected end-to-end data reconciliation pipelines in Azure Data Factory processing 500+ custodian files daily (Union Bancaire Privée, State Street, Schwab), integrating Azure Service Bus for asynchronous message queuing to decouple file processing from downstream delivery, achieving 90% uptime and reducing reconciliation discrepancies
- Built custom SFTP adapters and Azure Functions for automated file ingestion and transformation, enabling 100+ downstream users to access reconciled data within SLA vs. 2-3 day manual turnaround, resulting in 40+ hours of weekly cost savings
- Engineered a full-stack document aggregation system synthesizing client data from 8+ micro-services and databases into personalized meeting folders, reducing pre-meeting prep time from 4 hours to 30 minutes and boosting client team confidence and readiness
- Integrated AI-driven document summarization using ChatGPT APIs, automating generation of 200+ weekly executive summaries with 99.7% data extraction accuracy, standardizing client narratives and reducing manual review time by 75%
- Developed a flexible, provider-agnostic data ingestion system (Pitchbook, Cambridge Associates) with configurable upload UI and automated CSV parsing, processing 15K+ performance records monthly and serving 60+ internal users analyzing \$70B+ in AUM
- Guided 3 engineers in scalable architecture design, API lifecycle management, and performance tuning; implemented 12+ RESTful microservices with high availability and observability standards, enabling 5 internal systems to seamlessly share performance data and boosting adoption by 50%

Software Developer, mDesign REMOTE (July 2023 - April 2024)

- Architected and implemented a data processing microservice integrating with platforms like Amazon, ChannelEngine, Walmart, and P2P, improving data retrieval speed by 40% and enabling seamless multi-platform synchronization
- Architected fault-tolerant backend systems using AWS EC2, Lambda, and RDS with automated scaling, load balancing, and database replication, enhancing uptime and achieving a 10% reduction in operational costs
- Enhanced performance and reliability of data systems by managing and tuning MySQL and PostgreSQL databases, integrating Redis caching and Apache Kafka for real-time, high-throughput data processing - boosting responsiveness by 30%
- Elevated code quality and deployment stability through OOP, TDD, automated testing, and rigorous peer reviews, cutting deployment errors by 25% and improving overall release confidence and maintainability

Software Engineer, Friendemic (acquired by Kenect) REMOTE (July 2022 - June 2023)

- Refactored a monolithic system into microservices using RESTful APIs, enabling seamless scheduling, analysis, and maintenance of over 1 million social media posts across multiple platforms, improving scalability and maintainability
- Optimized database performance by diagnosing and resolving query bottlenecks, achieving a 33% reduction in execution time and a 25% improvement in system responsiveness, directly enhancing user experience
- Architected and deployed containerized microservices using Docker Compose, streamlining the software development lifecycle and ensuring consistent environments across development, testing, and production
- Led migration of legacy infrastructure from AWS to GCP with Terraform, ensuring minimal downtime and improving system performance by 29% through enhanced resource utilization and networking efficiency

Software Developer, System Soft Technologies TAMPA, FL (October 2019 - June 2022)

- Developed and optimized GraphQL APIs with Redis caching, improving data-fetching efficiency by 30% and significantly enhancing response times and overall system scalability
- Automated and streamlined CI/CD pipelines on BuddyWorks and Jenkins using shell scripting, containerization, and Infrastructure as Code (IaC), reducing deployment overhead and decreasing server downtime by 33%
- Upheld engineering excellence through rigorous code reviews, SOLID principles, and automated testing, leveraging UAT frameworks to achieve a 25% reduction in post-release defects and higher code reliability

Graduate Research Assistant, SUNY Polytechnic UTICA, NY (August 2017 - December 2018)

- Built a high-performance Python data pipeline utilizing NumPy for large-scale analysis, improving processing efficiency by 12% and enhancing research output

Web Development Intern, Tidbit Solutions AHMEDABAD, INDIA (August 2015 - June 2017)

- Designed and implemented scalable backend modules using PHP, JavaScript, and MySQL, writing efficient code and stored procedures that improved application speeds

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 [Website](#) |  [LinkedIn](#)

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TECHNICAL SKILLS

Programming Languages:

Python, PHP, Javascript, Typescript, C#

Backend Frameworks:

Django, Flask, FastAPI, Laravel

API Development:

REST, GraphQL, gRPC, Azure APIM

Frontend Development:

React, NextJS, Bootstrap, jQuery

Database Management:

MySQL, Redis, NoSQL

Containerization:

Docker, Kubernetes, Terraform

Systems & Architecture:

Microservices Architecture

Caching & Performance Optimization

Distributed Systems

API Gateway Design

Event-Driven Architecture

High Availability & Scalability

SOFT SKILLS

Cross-functional Collaboration

Stakeholder Management

Time Management

Leadership & Mentorship

Technical Documentation

Conflict Resolution & Influence

Ownership & Initiative

Strategic Thinking & Business Acumen

Emotional Intelligence

EDUCATION

SUNY Polytechnic Institute, Utica, NY

MS Computer & Information Science

(August 2017 - April 2019)

Ahmedabad University, Gujarat, India

Bachelor's in Computer Applications

(June 2013 - April 2017)

LANGUAGES

English, Gujarati and Hindi