



Sagar Desai

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EXPERIENCE

Capital One

Plano, TX

Software Engineer

Aug 2021 - Present

- Achieved \$3.1M in AWS cost savings by collaborating with 5 teams to overhaul design patterns, driving efficiency and scalability through tailored recommendations and implementations across S3, EC2, RDS, ECS.
- Designed a scalable system mapping organizations to teams, creating API endpoints and a AWS Fargate stream listener to track changes, supporting seamless updates for 1000+ teams.
- Implemented a pull-request scanning system in GitHub Checksuite using Python to enforce compliance and prevent unauthorized IAM and S3 policy changes, enhancing policy governance and reducing errors by 27%.

Associate Software Engineer

Aug 2020 - Aug 2021

- Decoupled a monolithic loan decision-making system into modular microservices using Java Spring Boot and Jersey, enhancing scalability and reducing processing time to under 1 second per request.
- Delivered a core microservice to non-production environments in under two weeks, accelerating the rollout of customer-facing features.
- Enhanced API security by designing and implementing three iterations of Proof-of-Possession (PoP) Token validation, safeguarding sensitive customer data and preventing unauthorized access.

Sandia National Laboratories

Champaign, IL

Software Engineer Intern

June 2019 - August 2019

- Enhanced outdated classification algorithms for data image processing by implementing a CNN image classifier, achieving up to 78% classification fidelity across groups and subgroups.
- Collaborated with a team of 4 engineers to analyze critical time series data and graph correlations using Pyplot, improving data visualization accuracy and insights.

PROJECTS

SKUhunt

New York, NY

Co-founder/CTO

September 2024 - Present

- Engineered a real-time profit and loss analytics platform for TikTok sellers, ensuring 99.9% uptime while achieving sub-second latency for up to 15 transactions per second.
- Designed and optimized SQL database schema to support real-time financial calculations, delivering accurate daily profit and loss reports for TikTok sellers while reducing query execution time by 30%.
- Integrated TikTok API to handle requests and provide seamless data updates, processing over 40,000 transactions per month with 98% data accuracy.

Rewired Mind

New York, NY

Co-founder/CTO

April 2023 - August 2024

- Launched an AI-powered mental health app leveraging Langchain, Pinecone, and OpenAI, delivering personalized stress management techniques that improved stress levels by 15% for early users within 30 days.

EDUCATION

University of Illinois Urbana Champaign

May 2020

Bachelor of Science in Computer Science and Mathematics

GPA: 3.04/4.0

SKILLS

- Python, Java, Javascript, C, C++, React, React Native, AWS, GitHub, Firebase, Next.js, NoSQL / SQL

CERTIFICATIONS

- AWS Solutions Architect - Associate

Aug 2021 - Aug 2024