

Suchit Gupta

+1 716-292-3634 | suchitni@buffalo.edu | [linkedin.com/in/suchit-gupta](https://www.linkedin.com/in/suchit-gupta) | github.com/suchit001

SUMMARY

Software Developer with experience in full-stack development and microservice architecture. Skilled in designing web technologies, leveraging cloud services, and implementing DevOps practices such as continuous integration, automated testing, and code reviews. Passionate about building innovative tools that empower developer communities and solve real-world problems with thoughtful design and seamless developer experience.

EXPERIENCE

Data Engineer | *Fannie Mae, Reston, VA*

Apr 2025 – Present

- Orchestrated scalable data workflows using AWS Glue, Step Functions, Lambda, and Dremio, enabling efficient data ingestion, transformation, and real-time analytics for enterprise mortgage data.
- Implemented event-driven architectures with SNS and SQS to decouple ETL components, improving system reliability and reducing processing failures by 25%.

Full Stack Developer | *Wellness Forever*

Jan 2023 – Aug 2023

- Led the migration of the order processing pipeline to a serverless stack using AWS Step Functions, SQS, EventBridge, and Lambda, improving throughput by 40% while ensuring strong fault tolerance and data consistency.
- Designed a data replication strategy using MemoryDB, ElastiCache, MySQL, and Redshift by implementing a hot-warm-cold data architecture, resulting in a 20% reduction in infrastructure costs.

Full Stack developer | *Blackcurrant Labs*

Dec 2020 – Jan 2023

- Managed an agile team of 4–5 developers through system architecture design, full-stack development, and testing of cross-domain web applications, ensuring high performance and reliability.
- Re-engineered the backend infrastructure of a video calling application using WebSockets and Redis, improving throughput by 20% and reducing video transmission latency by 60%.
- Orchestrated the setup of CloudFormation templates and CI/CD pipelines, integrating modern cloud services such as Docker, ECS, and CloudWatch through targeted proof-of-concepts (POCs).

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, PHP, TypeScript, JavaScript, SQL, GraphQL

Web Development: Angular, Express.js, Node.js, React, Django, Bootstrap, HTML5, CSS3, Flask, JSON

Database: SQL- MySQL, PostgreSQL, NoSQL - DynamoDB, MemoryDB, MongoDB, Redis

Cloud & DevOps: AWS, GCP, Docker, Git, CI/CD, Jenkins, Kubernetes, Firebase, Terraform

Tools & Technologies: Elasticsearch, WebSockets, RabbitMQ, Hadoop, PySpark, Sentry, Jest, RESTful API, SQS, SNS, Step functions, EventBridge, Lambda, EC2, S3, Cloudwatch, Glue

PROJECTS

Agentic AI | *Microsoft Autogen, MemGPT, Tensorflow, RAG, GCP*

Apr 2024

- Built an Agentic AI-driven content creation ecosystem using Microsoft Autogen and Langchain leveraging TensorFlow, LLMs, and DALL-E to design and publish rich social media content across multiple platforms.
- Integrated a feedback loop with MemGPT, allowing the generative AI to learn and refine content based on user interaction data from previously published posts.

FNO Trader | *Python, FastAPI, Flask, RabbitMQ, Redis Pub/Sub, MongoDB, Docker, Streamlit*

Jan 2024

- Developed a trading bot utilizing RabbitMQ for order placement and updates, and Redis PubSub for streaming real-time LTP and Python FastAPI for implementing trading strategies.
- Deployed a multi-container architecture with Docker Compose to manage resources for concurrent execution of more than 12 algorithms, with MongoDB for trade history and LTP archiving, and Streamlit for performance dashboards.

Hoopr | *Angular, Express, Node.js, PostgreSQL, Elasticsearch, Redis, AWS*

Jan 2023

- Developed audio processing pipeline deployed on separate auto scaled EC2 instances working on a job based message queuing service for audio transcoding, compression and HLS segmentation.
- Integrated audio fingerprinting algorithm to classify valid copyright claims with a 65% precision over different scales and stems of 25000+ audio track library.

EDUCATION

SUNY, University at Buffalo

Buffalo, NY

Master's of Science in Computer Science (CGPA: 3.93/4)

Aug. 2023 – Dec 2024

University of Mumbai

Mumbai, India

Bachelor's of Engineering in Computer Engineering

Sep. 2016 – May 2020