

Saurabh Joshi

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SUMMARY

Software Engineer with 5 years of experience building scalable back-end systems, front-end applications, and data pipelines. Proven track record of delivering high-impact, revenue-generating features under tight deadlines. Key contributor in scaling the core revenue platform from 2 to 5 billion daily ad requests by developing new ad products. Skilled in designing low-latency, high-throughput microservices, real-time data processing systems, and cloud-native architectures using Kubernetes and AWS. Strong background in QA automation and data validation to ensure platform reliability and performance.

WORK EXPERIENCE

Kargo Global Inc, New York City, NY, USA

Associate Software Engineer

February 2023 - February 2025

- Designed and deployed high-performance B2B Ad Tech solutions using **Go and Python**, for Kargo's large-scale auction platform, integrating industry-leading partners and leveraging CI/CD for rapid, iterative development.
- Led **REST-API integrations** with external partners using industry-standard protocols (e.g., OpenRTB, Prebid), streamlining programmatic workflows and large-scale digital transactions.
- Optimized bidding algorithms across back-end services, contributing to a **5% revenue increase** across Mobile, Desktop, and Connected TV (CTV) through targeted code improvements.
- Contributed to major post-acquisition platform integration, **enabling multi-bid capabilities and enhancing efficiency and monetization for CTV inventory**.
- Implemented code logic enhancements in collaboration with the data science team to support bidding and revenue experiments involving both in-house and third-party **Machine Learning models**, improving bid efficiency and targeting accuracy.
- Drove multiple platform improvement projects each quarter, working cross-functionally with product and engineering teams to enhance **scalability and ad-serving performance**.
- Monitored and supported Kargo's cloud-based platforms, as part of the product owner team, leveraging Grafana, Prometheus and InfluxDB ensuring high availability while handling 5 billion+ daily requests and driving **70% of the company's annual revenue**.
- Resolved complex bugs and high-priority production issues**, maintaining stakeholder confidence by meeting tight deadlines and ensuring system stability.
- Engineered internal automation tools for testing and monitoring, **accelerating deployment cycles by 30% in a sprint and improving developer productivity**.

Associate Software Engineer in Test

March 2020 - February 2023

- Developed and automated API testing solutions for a large-scale real-time bidding platform using **JavaScript and Cypress**, covering both REST and gRPC interfaces, and ensuring **100% feature parity with third-party vendor systems**.
- Led **QA efforts** during a major system migration from a third-party solution to an in-house Supply Side Platform (SSP), coordinating cross-functionally and **enabling seven-figure cost savings** for the company.
- Designed and executed test plans** for DSP integrations (e.g., Google DV360, Amazon), supporting scalability of the in-house SSP and contributing to **\$6 million in incremental revenue** in 2021.
- Built and validated ETL pipelines using **Apache Airflow**, ensuring data consistency across Snowflake data warehouses and maintaining data trustworthiness for downstream analytics.
- Ensured near-perfect **data accuracy in Looker reporting** by leading QA efforts in collaboration with the data team, delivering reliable insights for key business stakeholders.
- Executed **R&D-driven auction experiments** using **Golang canaries and traffic sampling techniques**, evaluating revenue impact and informing optimizations to auction mechanics and inventory allocation.
- Monitored platform traffic** during peak events, proactively detecting anomalies and ensuring system stability, contributing to ongoing revenue optimization.
- Transitioned into a back-end software engineering role**, rapidly taking ownership of core development initiatives across bidding, experimentation, and integration domains.

TECHNICAL SKILLS

Programming Languages:

Golang, Python, Java, SQL, JavaScript, ReactJS, TypeScript, Angular.

Infrastructure & Cloud:

Kubernetes, Docker, AWS (S3, Kinesis), InfluxDB, PostgreSQL, Redis, Aerospike.

Data & Analytics:

Snowflake, Looker, Grafana, Apache Airflow, MongoDB, Hadoop, Tableau.

Development & Tools:

GitHub, VS Code, Postman, Cypress, TablePlus, PagerDuty, GitHub Copilot, Ollama, JIRA.

EDUCATION

Master of Science in Information Sciences and Technologies: Rochester Institute of Technology, Rochester, NY, USA (2017 - 2019)

Bachelor of Engineering in Information Technology: Mumbai University, Mumbai, Maharashtra, India (2013 - 2016)

Diploma in Computer Technology: Thakur Polytechnic, Mumbai, Maharashtra, India (2010 - 2013)