Saurabh Joshi

+1 (585) 309-3540 | saurabhvjjoshi@gmail.com | linkedin.com/in/saurabhvjjoshi | github.com/sj1815 | saurabh-joshi-portfolio.vercel.app

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SUMMARY:

Software Engineer specializing in backend development, distributed systems, and data engineering. Experienced in building high-scale, real-time Golang platforms handling 5 billion+ ad requests per day, optimizing performance, and ensuring data accuracy across large-scale systems. Skilled in designing and managing data pipelines, ETL workflows, and cloud infrastructure with Kubernetes and AWS. Previously led QA automation and data validation efforts, enhancing platform reliability and scalability. While deeply rooted in Ad Tech, my expertise extends to solving complex engineering challenges across various domains. Additionally, I have frontend experience with JavaScript, React, and Angular, enabling full-stack contributions.

WORK EXPERIENCE:

- **Kargo Global Inc, New York City, NY, USA**
  - **Associate Software Engineer.**   **February 2024 - February 2025**
    - Developed and deployed high-performance solutions for Kargo's large-scale ad auction platform, integrating with industry-leading publishers and Demand-Side Platforms (DSPs) in an **Agile development cycle,** following CI/CD processes to ensure iterative improvements and rapid feature deployments.
    - Part of the integration team for a critical Connected TV (CTV) solution post-VideoByte acquisition, enabling multi-bid capabilities for the same impression and significantly expanding company's footprint in **CTV advertising**.
    - Optimized bidding strategies within Kargo's Supply Side Platform (SSP), contributing to a **5% increase in revenue** across mobile, Desktop and CTV campaigns.
    - Spearheaded multiple platform improvements each quarter, driving **increased ad-serving efficiency and scalability**.
    - Managed integrations with DSPs and Publishers, utilizing OpenRTB and Prebid standards to ensure seamless ad transactions for Open, Direct and Programmatic campaigns.
    - Monitored and supported Kargo's ad-serving platform across four data centers, along with my team, handling **5 billion+ daily requests** and driving **70% of annual revenue**.
    - Resolved multiple complex bugs and escalations, meeting tight deadlines while ensuring platform reliability and maintaining stakeholder trust.
    - Led the development of internal QA tools for the team, **improving testing efficiency and streamlining the development lifecycle** for ad serving platforms.
    - Technologies leveraged include **Golang, Kubernetes, SQL, RESTful APIs, Snowflake, Docker, AWS, Redis, Aerospike.**

  - **Associate Software Engineer in Test.**   **March 2020 - February 2024**
    - Developed and automated testing solutions for Kraken's header bidding service using JavaScript and Cypress, ensuring 100% feature parity with third-party vendor systems.
    - Contributed to the scaling of the in-house SSP, supporting **$6M incremental revenue in 2021**, by creating a robust test plan for successful DSP integrations (Google DV360, Amazon).
    - Led QA efforts during the migration from a third-party SSP to an in-house solution in 2022, resulting in **seven-figure cost savings** for the company.
    - Built and validated **ETL pipelines** for ad-serving data using **Apache Airflow DAGs**, ensuring data integrity across **terabytes of data** stored in **Snowflake** stage, fact, and aggregate tables.
    - Led QA efforts for **Looker reporting**, verifying data accuracy for key stakeholders and ensuring seamless integration with Snowflake.
    - Coordinated with Data teams to validate **ad-serving data**, ensuring reliability across the pipeline from raw logs to reporting layers processing **terabytes of daily ad traffic**.
    - Volunteered for **traffic monitoring** during high-demand periods, ensuring ad quality and revenue growth.
    - **Transitioned successfully from QA to Software Engineering in 2024,** owning project epics.
    - Some of technical skills used include **JavaScript, Cypress, Kubernetes, SQL, Golang, RESTful APIs, Apache Airflow, Snowflake, Docker, Looker** and **Postman.**

TECHNICAL SKILLS

Programming Languages:	Golang, Python, Java, SQL, JavaScript (TypeScript, React.js, Angular4).
Infrastructure & Cloud:	Kubernetes, Docker, AWS (S3, Kinesis), InfluxDB, PostgreSQL, Redis, Aerospike.
Data & Analytics:	Snowflake, Looker, Grafana, Apache Airflow.
Development & Tools:	GitHub, VS Code, Postman, Cypress, TablePlus, PagerDuty, GitHub Copilot, Ollama, JIRA.

EDUCATION:

M.S in Information Sciences and Technologies.	Rochester Institute of Technology.	2019
B.E in Information Technology.	Mumbai University, India.	2016.
Diploma in Computer Technology.	Maharashtra State Board, India.	2013.

HOBBIES:

- Passionate about sports, especially European soccer, hiking scenic trails, and cooking new dishes. Recently started learning guitar and photography.