Saurabh Joshi

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SUMMARY:

Software Engineer specializing in backend development, distributed systems, and data engineering. Skilled in working on high-scale, real-time Golang platforms handling 5B+ ad requests per day, optimizing performance and ensuring data accuracy across large-scale systems. Experienced in data pipelines, ETL workflows, and cloud infrastructure with Kubernetes and AWS. I have previously led QA automation and data validation efforts, enhancing platform reliability and scalability. While deeply rooted in Ad Tech, my technical expertise extends to solving complex engineering challenges. 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).
    - 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 revenu**e 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 daily operations of the ad-serving platform across four data centers, processing over 5 billion requests per day, contributing to more than **70% of Kargo's annual gross 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 third-party SSP to in-house solution in 2022, resulting in **seven-figure cost savings** for the company.
    - Coordinated with Data teams to validate ad-serving data, ensuring reliability in Snowflake across stage, fact, and aggregate tables.
    - Led QA efforts for Looker reporting, ensuring accurate and timely data for stakeholders.
    - Volunteered for traffic monitoring during high-demand periods, ensuring ad quality and revenue growth.
    - **Transitioned successfully from QA to Software Engineering in 2024,** owning large project epics.
    - Some of technical skills used include **JavaScript, Cypress, Kubernetes, SQL, Golang, RESTful APIs, 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.

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 vegetarian dishes**.** Recently started learning guitar and photography**.**