Saurabh Joshi

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SUMMARY:

Software Engineer specializing in backend development, distributed systems, and data engineering. Experienced in designing high-scale, real-time platforms handling billions of daily transactions with low-latency processing and data integrity. Experienced in building high-throughput microservices, ETL workflows, and cloud-native architectures with Kubernetes and AWS. Strong background in data-driven systems, optimizing storage, caching, and event processing for scalability and reliability. Led QA automation and data validation efforts, ensuring platform stability and efficiency. Proficient in Golang, Python, SQL, and familiar with Java, Node.js and frontend technologies like React & Angular.

WORK EXPERIENCE:

- **Kargo Global Inc, New York City, NY, USA**
  - **Associate Software Engineer.**   **February 2024 - February 2025**
    - Developed and deployed high-performance B2B Ad Tech solutions for Kargo's large-scale auction platform, integrating industry-leading partners in an Agile environment while following CI/CD processes for rapid, iterative improvements.
    - Managed **API integrations** with external partners, utilizing industry-standard protocols to streamline large-scale digital transactions and programmatic workflows**.**
    - Optimized bidding algorithms on backend services as part of the development team, implementing code-driven improvements that led to a **5% increase in revenue** across Mobile, Desktop, and Connected TV (CTV).
    - Contributed to a major platform integration post-acquisition**,** enabling multi-bid capabilities and **improving efficiency** for CTV advertising**, expanding revenue opportunities.**
    - Implemented logic modifications to support experiments with the data science team, leveraging both in-house and third-party AI/ML models **leading to improvements in bid efficiency and targeting accuracy.**
    - Spearheaded multiple platform improvements each quarter working closely with team and stakeholders, driving **increased ad-serving efficiency and scalability**.
    - Worked with the team to monitor and support Kargo's cloud-based platforms across multiple data centers, ensuring high availability while handling 5 billion+ daily requests and driving **70% of annual revenue**.
    - Diagnosed and resolved complex system bugs and production escalations, meeting tight deadlines while ensuring platform reliability and maintaining stakeholder trust.
    - Engineered internal tools to enhance automation in testing and monitoring**,** streamlining development workflows and reducing deployment time**.**
    - Technologies leveraged include **Golang, Kubernetes, SQL, RESTful APIs, Snowflake, Docker, AWS s3, AWS Kinesis, Redis, Aerospike, JIRA.**

  - **Associate Software Engineer in Test.**   **March 2020 - February 2024**
    - Developed and automated API testing solutions for a large-scale real-time bidding platform using JavaScript and Cypress, ensuring **100% feature parity** with third-party vendor systems.
    - Devised comprehensive test plans for Demand Side Platforms integrations (Google DV360, Amazon), contributing to the scaling of the in-house Supply Side Platform and **driving $6M in incremental revenue** in 2021.
    - Led QA efforts during the migration from a third-party system to an in-house solution, coordinating with cross-functional teams, resulting in **seven-figure cost savings** for the company.
    - Built and validated ETL pipelines for ad-serving data using Apache Airflow, ensuring data integrity across multiple Snowflake warehouses.
    - Verified near-perfect data accuracy for Looker reporting by leading QA efforts in collaboration with data team, ensuring reliability for key business stakeholders.
    - Executed multiple auction-related experiments using Golang canaries, leveraging traffic sampling techniques to assess revenue impact and optimize inventory utilization.
    - Monitored platform traffic proactively during high-demand periods, ensuring system stability and revenue optimization.
    - Transitioned into a Software Engineering role in 2024, taking ownership of key development projects.
    - Some of the technical skills used include **JavaScript, Cypress, Kubernetes, SQL, Golang, RESTful APIs, Apache Airflow, Snowflake, Docker, Looker, Postman, JIRA.**

TECHNICAL SKILLS

Programming Languages:	Golang, Python, Java, SQL, JavaScript, TypeScript (React.js, Angular4), HTML, CSS.
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:

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.