

Shubham Srivastava

SENIOR SOFTWARE ENGINEER
BLOOMBERG LP
FIXED INCOME TRADING PLATFORM
ELECTRONIC TRADING

~ 8 years of Experience

Details

(973) 874-8563
shubham.s.del@gmail.com
ss14687@nyu.edu

Links

[LinkedIn](#)
[Github](#)

Skills

JAVA
Version Control: Git
Data Structures and Algorithms
Python
C
Software Design Patterns
Systems Design
Databases
Machine Learning
Shell Scripting
Distributed Systems
Project Management
Artificial Intelligence
C++
Javascript/Typescript
RAPID
BAS
Bloomberg Terminal

Work Experience

Bloomberg LP New York, NY, US
SEP 2022 — PRESENT
Senior Software Engineer, Electronic Trading
• Worked across teams to add support for multiple intermediating brokers behind the Bridge workflow on List Trading, Single Security Trading, and Automation Trading workflows. This should have a huge upside for buy-side clients trading in emerging markets.
• Driving an effort to research and define SLOs for all our C++ backend systems for FIT tickets, - and leveraging an internal monitoring system for consistent observability dashboards and alerting around asset classes, workflows, and SLIs.
• Worked across teams to add MBS support to the Bloomberg function - RBLD, Optimized existing call graphs, and improved the latency SLAs for MBS by over 60% in the process.
• Conceptualized an engineering solution for Sort Best rules at desk level, which is something that clients were heavily pushing for - for improved maintainability. Clients are beginning to use this feature.
• Worked on several high-impact projects wrt Bloomberg functions - RBYI, FTKT, RBLD - and Smartbot.

Flipkart Internet Pvt Ltd (acquired by Walmart) Bengaluru, India
OCT 2020 — JAN 2021
Senior Software Engineer (SDE-3)
• Collaboratively redesigned the user-facing gateway routing system that powered the all user-facing APIs (supporting over 200 million users, interacting with 50+ micro-services)
• Captured the end-to-end use-cases of, and identified the anti-patterns in, the monolith legacy system spanning over 300k lines of code
• Suggested a design that had clear ownership and separation of components, which would result in better maintainability and developer productivity, as opposed to the previous system

Senior Software Engineer (SDE-2) JAN 2017 — SEP 2020
• Regulated the design, development, maintenance, and disaster-recovery-plan of multiple high-scale (up to 900k queries-per-second) systems
• Designed, developed, and maintained the user-facing API layer platform, enabling collaborative API development across 15+ internal teams
• Drove the efforts on a fault-tolerant, high-scale, multi-tenant session management platform leveraging extensive system design skills, HBase, Memcached, and the write-through-cache pattern
• Org Building and Collaboration: Worked with 20+ teams on several cross-functional initiatives. Mentored 15+ teammates on several projects (helped them ramp up/grow/improve)

Software Development Engineer (SDE-1) JUL 2015 — DEC 2016
• Delivered several impactful API projects (such as reviews, product exchange, etc.) as a part of the team that managed all user-facing APIs. These APIs were critical for Flipkart UI components
• Demonstrated good knowledge of the org-specific functional domain, and quick learning skills while working in product details aggregator framework (new product service)
• Leveraged LocustIO and GCP understanding to actively contribute to sale-readiness (up to 10x usual load) initiatives for multiple major sales

Software Development Engineering Intern JAN 2015 — JUN 2015
• Worked on reverse-geo-coding system internal to Flipkart, which was critical for location-based personalization. Scale-tested the system for up to 5k queries per second.

Education

MS in Information Systems JAN 2021 — AUG 2022
New York University (Courant Institute of Mathematical Sciences) New York, NY
Relevant Courses: Database Systems, Fundamental Algorithms, Artificial Intelligence, Operating Systems, Advanced Topics in Database Systems, Foundations of Finance, Strategy, Entrepreneurship

Bachelors in Information and Communication Technology JUL 2011 — MAY 2015
Dhirubhai Ambani Institute of Information and Communication Technology India

Academic Projects

• **OS-related:** Implemented thread-pool in C, using POSIX Threads. Leveraged this thread-pool to create a parallelized Run Length Encoder in C. Created a shell in the C programming language.
• **Artificial Intelligence:** Created a path-finder in JAVA that could use several complex algorithms such as ASTAR, Iterative Deepening, BFS, and DFS to search paths in graphs. Additionally, created a BNF to CNF converter, and a DPLL Solver in JAVA. Created a Markov Decision Process resolver using Policy Iteration.
• Worked as a Grading/Course Assistant for several courses in NYU - Machine Learning in Bioinformatics, Applied Cryptography, Programming in Python, Database Systems

Additional Skills and Details

Languages: Java, Python, SQL, C, Shell Scripting,, JavaScript, C++, Typescript
Frameworks: Dropwizard, Vertx, gRPC, flask, RAPID, BAS
Databases: MySQL, OracleSQL, Memcached, MongoDB, Aerospike, HBase, Redis, Couchbase, Comdb2
Tools/Technologies: Storm, Kafka, GCP, RabbitMQ, Spark, LocustIO, Grafana
Data Science/Libraries: Sklearn, pandas, NumPy, Matplotlib, Hystrich, Guava, Jackson
Other Certifications/Courses: Udacity Nanodegree for 'ML Basics'