

🎓 EDUCATION

- **Stony Brook University** New York, U.S.A.
Master of Science in Computer Science; GPA: 3.93 2019 – 2021
 - **Courses:** Analysis of Algorithms, Probability & Statistics, Data Science, Natural Language Processing
 - **Teaching Assistant:** CSE 214 - Data Structures (Java), CSE 416 - Software Engineering
- **University of Mumbai** Mumbai, India
Bachelor of Engineering in Information Technology; First Class with Distinction (72.9%) 2011 – 2015
 - **Courses:** Data Structures and Algorithms, Operating Systems, Discrete Mathematics, Databases

🔧 EXPERIENCE

- **J.P. Morgan Chase & Co.** Mumbai, India
Senior Application Developer Feb 2018 – Aug 2019
 - **Data Access Control System (DACS) Authentication:** Authorised access to live prices over JMS based metafluent queue. Crucial in helping the firm avoid audit issues and reduced subscription costs per trader by 50%.
 - **Trader Analytics:** Introduced statistical enhancements in the core application such as absolute and percent variance, market share and standard deviation of historical stock prices to aid in trading decisions.
 - **Memory Optimization:** Application heap usage profiling and G1 Garbage Collection tuning through careful analysis of humongous allocations resulting in 80% fewer memory related issues.
 - **Real-Time Pricing:** Developed a component using Spring, REST, JMS and TDD principles that approximates real-time risk using live prices; and publishes them out. It helped retire a legacy system saving the firm ~\$250k.
- Application Developer* July 2015 – Jan 2018
 - **Risk Management System:** Worked extensively on the core app used by traders for visualizing and hedging risk;
 1. Optimized the data feed using LMax Disruptor, a low latency Java queue for upto 20% faster processing.
 2. Process startup time improvement by 50% through the use of Multi-threading and Spring annotations.
 - **Position/Trades feed migration::** Spearheaded the development effort in migrating the critical source feeds and fixed several timely bugs reducing the reputational and operational risk.
 - **Market Data Source:** Framework for validating the functionality of a critical market data publishing app and reporting results using Java MXBeans and Apache POI. Reduced the manual testing effort by 90%.
 - **Quick-Deploy:** Streamlined application deployment, startup and monitoring on Unix production servers.
 - **MongoDB High availability:** Team point of contact for MongoDB. Built a mechanism to switch from replica set to standalone instance on the fly in case of a data center failure ensuring business continuity.

⚙️ TECHNICAL SKILLS

- **Languages:** Java, Python, Unix Shell Scripting, SQL
- **Frameworks:** Spring, Spring-Boot, Swagger, JUnit, Mockito, Java MBeans, JMS, JBehave
- **CI Tools:** Gradle, Team City, Git, Bitbucket, Ant, Jenkins, YourKit
- **Databases:** Sybase ASE, MongoDB, MySQL

🏗️ PROJECTS

- **Toxic Online Comments:** Deep learning model for identifying Toxicity in Wikipedia comments.
- **Email Template Generator:** Built on the handlebars framework, creates templates to send out reactive email alerts.
- **Pratham NGO:** A system to keep track of the underprivileged students supported by the NGO. Migrated data from Salesforce to Azure SQL using Pentaho Kettle and developed a Java utility for reporting faulty data.
- **Reliable UDP:** Server-Client Exchange with Checksum validation and re-transmission in case of corrupt data.
- **Physual(Capstone):** Text to scene system to visualize Mechanics problems using NLP, Java 3D and Blender Models.
- **Machine Learning/NLP:** News Article Classifier, Products Review Sentiment Analyser and Songs Recommendations