

TATHAGATA DASGUPTA

WORK EXPERIENCE

- 2022 JUNE - Manager, Senior Site Reliability Engineer, London Stock Exchange Group, New York
The merger of Maystreet (a 50 person startup) with LSEG means scaling up of the products and services for the sales pipeline of an industry leader. This requires long-term strategic planning for integrating Maystreet's on-prem and cloud assets into LSEG's ecosystem through coordination with multiple teams with varying priorities. Building the disaster recovery strategy, realigning security posture (CrowdStrike, Qualys, Dome9), reducing release cycle times by focusing on shift-left principles, growing the team.
- 2020- 2022 Senior Site Reliability Engineer, Maystreet Inc., New York
Team Lead for Commercial Services of SRE organization, building solutions on top of low-latency market data capture infrastructure serving Securities and Exchange Commission, CBOE, Citi Bank etc. Delivered major platform upgrades, built deployment pipelines that reduced deployment times from hours to minutes, reduced signal to noise ratio in monitoring pipeline, self-service chatops solutions for reducing toil, created the team's recruiting and onboarding framework. AWS, Kubernetes (on-prem & EKS), Gitlab CI/CD, ArgoCD, Ansible, Terraform, DataDog, Prometheus/Grafana/Alertmanager, OpsGenie, bash & Python
- 2017- 2019 Senior Software Engineer, Highly Automated Driving, Here Technologies, Chicago
Worked on building data pipelines for ingesting street-level imagery, GPS, LiDAR data for creating High Definition map that enables Highly Automated Driving. Ingesting and processing petabytes of data using Python, Elixir, Postgres, AWS (Cloudformation, OpsWorks, S3, RDS, Lambdas, Fargate etc). Automated deployments (Jenkins, Gitlab) reducing release time from days to hours, streamlined workflow for customers.
- 2013- 2017 Python Developer, Global Markets, Bank of America Merrill Lynch, Chicago
Worked on the Bank's proprietary cross-asset technology platform Quartz - a Python stack that uses functional reactive frameworks, globally replicated object store, and high-throughput/low-latency messaging system. Gathered requirements, designed and implemented solutions for Global Market Operations. Worked on high-performance trade matching, confirmation generation, workflow management frameworks, and data lineage.
- 2011- 2013 Research Assistant, Dr. Mark Grechanik, University of Illinois, Chicago
Application of natural language processing for software requirement traceability using Python, Java, bash scripting, MongoDB.
- 2012 SUMMER Developer Intern, Xaptum.com
Designed and implemented key modules of an Internet of Things platform with RabbitMQ, Java OSGi, Spring-WS. Worked directly with the CEO on product strategy and vision
- 2007- 2009 Project Engineer, Wipro technologies, India
Worked on building Service Oriented Architecture for *Farmers Insurance*, automated testing infrastructure, maintenance jobs, monitoring and made tools for providing faster answers to customer queries.

EDUCATION

- 2011- 2013 Master of Science, Management Information Systems, University of Illinois, Chicago
2003- 2007 Bachelor of Technology in Computer Science and Engineering, West Bengal University of Technology, India

VOLUNTEERING

- 2014- 2019 Organizer, Chicago Python User Group
Launched a volunteer driven free mentorship program that helped the community become one of the most active user groups in the world. Designed and conducted hands on workshops on Python, web development, data science that have been attended by hundreds of programmers.
- 2015- 2018 Webmaster, Asha for Education, Chicago
Built a fund-raising website that raised over 15,000 dollars in 5 months and is used by chapters across the globe for fund raising.

PUBLICATIONS

- Docker For Data Science, Tutorial at Pycon 2018 - Aly Sivji, Joe Jasinski, *Tathagata Dasgupta*
- Mark Grechanik, Collin McMillan, *Tathagata Dasgupta*, Denys Poshyvanyk, Malcom Gethers: Redacting sensitive information in software artifacts. IEEE International Conference on Program Comprehension, 2014
- *Tathagata Dasgupta*, Mark Grechanik, Evan Moritz, Bogdan Dit, Denys Poshyvanyk: Enhancing Software Traceability by Automatically Expanding Corpora with Relevant Documentation. IEEE International Conference on Software Maintenance, 2013