Rajat Shah

San Francisco, CA

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Work Experience

- **Netflix, Inc** — San Francisco, CA
  Senior Software Engineer — 2021 - Present
    - Leading Netflix's core Model Inference Platform, managing 500K+ requests/sec for user-facing ML models in personalization, growth, and commerce.
    - Early team member; built foundational components by collaborating with ML practitioners and addressing diverse use cases across live and precompute flow.

- **Amazon** — Seattle, WA
  Senior Software Development Engineer — 2017 - 2021
    - Contributed to Amazon retail strategy in large-scale automation and ML across Imaging Tech, Search Science, and Homepage recommendations.
    - Led a team of 6+ Software Engineers to launch a new personalized product recommendations service, increasing annual revenue by $MM+ increase in and serving millions of customers at Scale.
    - Started a side project and grew a team of 15+ volunteers to successfully launch Amazon Gather - an internal platform for community and event management. Gained 500K+ users in 2 years and received 'Just Do It' award from Jeff Bezos during company all-hands for my Bias for Action and Innovation. Gather has now become an integral part of employee experience with 100K+ active monthly users.
    - Collaborated with Scientists to train and deploy a novel Deep Learning language identification model for search queries, scaling to 10K+ requests/sec.

- **Morgan Stanley** — Mumbai, India
  Software Analyst — 2014 - 2015
    - Developed a reporting dashboard and underlying Scala/Java service.
    - Built a multi-threaded SOAP service for database access, showcased at the Global Town Hall for its broad impact.

- **Goldman Sachs** — Bangalore, India
  Software Analyst Intern — 2013
    - Optimized a market risk analysis tool with caching and parallel computing, significantly reducing execution time.

Education

- **Master of Science, Computer Science**
  North Carolina State University, Raleigh, NC — 2015 - 2016
    - Data Science specialization.
    - Graduate Research Assistant in Center for Educational Informatics, advised by Dr. Min Chi.

- **Bachelor of Technology, Computer Science**
  Visvesvaraya National Institute of Technology, India — 2010 - 2014
    - Technical Secretary- Member of VNIT Students' Council
    - Vice-Chairperson- ACM Student Chapter of VNIT

Programming Skills

Proficient: C++, C, Java, JavaScript, HTML, SQL, AWS full-stack development
Familiar: Web development, Kotlin, Shell Scripting, Python, Spark, ReactJS

Publications

- "Deep Learning + Student Modeling + Clustering: a Recipe for Effective Automatic Short Answer Grading", *The 9th International Conference on Educational Data Mining (EDM2016).*

- "Towards Automatic Linkage of Analyst's Claims with Associated Evidence from Screenshots", *IEEE BigDataService 2017.*