HARI PRASATH RAMAN

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EDUCATION

Stony Brook University, New York, USA
M.S. in Computer Science

CGPA: **3.96/4**
December 2016

National Institute of Technology, Tiruchirappalli, India
B.Tech. in Computer Science & Engineering

CGPA: **8.5/10**
May 2013

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, Javascript, TypeScript, Bash
- **Software / Frameworks:** FIX, RabbitMQ, Kafka, Flask, Django, Celery, SaltStack, React

WORK EXPERIENCE

Bloomberg LP   *Mar 2022 – Present*
Engineering Team Lead, Trading Systems Client Integrations   *New York, NY*

- **Team Leadership & Development:** Managed a team of 10 engineers, recruiting top talent and rapidly upskilling the team in modern technologies like RMQ, Kafka, REST APIs and C++20. Streamlined onboarding, reducing ramp-up time from 3 months to 1 month, and enforced high standards through TDD and BDD practices.
- **System Re-architecture & Performance**: Led the re-architecture of Trades/Orders ingestion legacy system, increasing throughput from 5 to 300 messages per second and enhancing order processing from 50 to 1000+ orders per basket. The system now handles over 1M transactions daily across AIM and TOMS, the company's flagship order management systems.
- **Linux Migration & Reliability:** Directed the migration to a Linux architecture, achieving DR-1 standards and maintaining 99.9%+ uptime without disrupting daily operations. Reduced latency by 50% and improved observability with distributed tracing, metrics collection, and optimized logging, enhancing client support.
- **Deployment & Innovation:** Increased deployment frequency from monthly to weekly by adopting modern packaging and deployment practices, resulting in faster feature delivery and reduced error rates by 30%.
- **Stakeholder Engagement:** Maintained strong communication with stakeholders, ensuring transparency and alignment on project timelines, which led to a 95%+ satisfaction

Senior Software Engineer, Trading Systems Transaction Infrastructure   *Apr 2019 - Feb 2022*

- **DataMapper Framework:** Designed and implemented a scalable framework for data transformation and translation using a configuration-based data dictionary. Enabled seamless data integration from multiple sources, supporting over 600+ requests per second with horizontal scalability for increased throughput.
- **Enterprise Trading System Self-Service Portal**: Spearheaded the design, development, and deployment of a web-based self-service application. Empowered Trading System applications to independently request and manage middleware configurations, reducing dependency on manual processes and streamlining operational efficiency.

Software Engineer, Network Automation   *Mar 2017 - Apr 2019*

- **SIMN Workflow Execution Engine:** Designed, developed, and deployed a workflow engine enabling data center operators to create, validate, execute, and audit workflows for network device maintenance and operations. Improved operator efficiency by more than **60%**, streamlining critical network management tasks.
- **What's Up What's Down:** Built and deployed a distributed application to monitor and record the reachability status of network devices. Designed APIs to query current and historical data, supporting alerting systems in correlating application failures with network device outages for faster root-cause analysis.

Whisper Text, Inc   *Jun 2016 – Aug 2016*
Software Developer Intern, Business Intelligence, Data Science Team   *Venice, CA*

- Built an interactive web app for visualizing reports, developed a Druid DB based dashboard for anomaly detection, and created an interface to managing Presto queries and automating Jenkins job, enhancing monitoring and operation efficiency for the Data Science and SRE teams.

Zynga Game Network Pvt India Ltd   *Jul 2013 – Jul 2015*
Software Engineer   *Bangalore, India*

- Designed and developed extendable features compatible with existing game systems to enhance functionality.
- Optimized initial game loading time by dynamically preloading assets based on player game state, reducing load time by 25%.
- Created a dynamic task generation system tailored to player capabilities, increasing player engagement by 15% and boosting user retention across diverse demographics by 20%

RESEARCH EXPERIENCE

File Systems Lab, Stony Brook University
Graduate Student Researcher, Under the guidance of Prof. Erez Zadok   *Jan 2016 – Dec 2016*
- Researched EXT4 file system performance instability, developed a benchmarking visualization platform, and published findings in USENIX - On the Performance Variation in Modern Storage Stacks

Networks Lab, National Institute of Technology, Trichy, Tamil Nadu
Under the guidance of Prof. S. Selvakumar   *Jan 2013 – Dec 2013*
- SHS-HTTPS enforcer: enforcing HTTPS and preventing MITM attacks - Worked on a group research project to create proof of concept local daemon which enforces HTTPS URL redirection by intercepting requests from the user agents. Results were published in ACM SIGSOFT Software Engineering Notes, Volume 38 Issue 6, Nov 2013