SUMMARY

Senior software engineer with amalgam of engineering (embedded systems; cloud computing; artificial intelligence and machine learning), business, finance, and communication skills - all of which have been drivers of successful leadership in companies like Amazon and Microsoft. Striving for MBA to maximize my impact on the world by synthesizing engineering and business expertise with leadership, management, and networking skills.

EXPERIENCE

Senior Software Engineer (Team Lead)
04/2018 - Present
Amazon - Alexa AI Engineering

- Promoted from Software Development Engineer II within a year (top 1% performer).
- Handpicked to lead Alexa Engine team within 3 months of joining.
- Pioneered batching/clustering approach to Alexa Engine data mining and modeling, improving accuracy by 40% and saving $40 million per year.
- Launched rapid development and deployment platform to streamline new customer onboarding time from 2 weeks to 15 minutes.
- Managed team's operational excellence by establishing coding standards, fine-tuning metrics and alarms, identifying security gaps, and slashing average weekly issue count from 40 to 10.
- Mentored team of 10 and fostered their advancement from entry-level to associate engineers engineers. Also actively engaged in Amazon's Mentorship and Leadership Development Program.
- Reengineered Alexa app's new user registration process, reducing Christmas peak customer issues by 10x.
- Published hardware requirements for Prime Day, Black Friday, and Christmas 2018 - 2020.

Senior Data Engineer
11/2016 - 03/2018
Susquehanna International Group (SIG), Options Trading Division

- Promoted from Financial Engineer in Options Trading Division with 6 months.
- Established real-time hardware asset tracking and distribution system to mitigate inter-team coordination issues via efficient automated scaling, which eliminated 25% excess hardware and saved $5 million.
- Developed real-time reporting mechanism on firm's market-making transactions to ensure FINRA compliance, reducing monthly violations rate from 48% to 3%.
- Programmed innovative trading strategy optimizations AI to boost traders' performance by 7%.

Software Engineer
03/2015 - 10/2016
Microsoft - Operating Systems Group

- Established Windows Phone 10 Mail app's power consumption targets; achieved 4x reduction from Windows Phone 8 Mail app's levels.
- Advised management on Windows Mail App development through reporting and analysis of user feedback and telemetry (e.g., recommended setting default auto-sync time to 15 minutes).
- Constructed Cortana's sentiment analysis engine to offer word suggestions for emails/documents and to glean real-time insights on Cortana's overall accuracy.
- Resolved guest network WiFi issues on Windows 10 early preview.

Software Engineering Intern
05/2014 - 08/2014
Amazon Web Services (AWS) - Elastic Block Store

Combined 6 teams' logging systems into single common logger, achieving 15% speed-up and halving debugging/troubleshooting time from 6 hours to 3 hours.

Full-Stack Web Developer Intern
12/2013 - 02/2014
LeanFM Technologies, LLC

Leveraged big-data analytics and Internet-of-Things for smarter, leaner building management.

Web Applications Course Developer and Assistant
05/2013 - 12/2014
Carnegie Mellon University

Redesigned course with professors, coached 105+ students.

Sairam Krishnan
Engineering Solutions Architect

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🎓 EDUCATION

MS in Electrical and Computer Engineering
Carnegie Mellon University
08/2014 - 12/2014

BS in Electrical and Computer Engineering
Carnegie Mellon University
2010 - 2014

Minor in Business Administration
Carnegie Mellon University
2010 - 2014

🔤 LANGUAGES

English (Native)
Tamil (Native)
Spanish (Professional)
Mandarin Chinese (Intermediate)
French (Beginner)
Italian (Beginner)
Sanskrit (Beginner)

⚡ SKILLS

Accounting (Financial and Managerial)
Cloud Computing (Certified for AWS, Azure, and Google Cloud)
Embedded Systems
Machine Learning
Software Development (Agile, Waterfall, Pair-Programming)
Software Security (Amazon Security Certifier)
Teamwork and Time-Management

⚡ ADDITIONAL ACTIVITIES

CMU Alumni Association (Volunteer)
Amazon Leadership Development and Mentoring Program (Member)
Amazon's Connect@Seattle Club (Volunteer)
Amazon Security/Privacy Certifier, Operations Samurai
Amazon SDE Bootcamp Trainer
Microsoft Maker Club (Volunteer)
SIG 5K Race for Inner-City Schools (Volunteer)
Toastmasters International (Member)
Avid Numismatist and Historian
Personal Portfolio Manager (~$500K in stocks/options/mutual-funds)