

Senior software engineer with specializations in embedded systems, data science, cloud computing, and machine learning; and wide-ranging experience in small, mid-sized, and large companies. Striving for MBA to make an impact on increasingly dynamic world by infusing engineering expertise with business savvy.



Senior Software Engineer (Team Lead)

Amazon - Alexa Al Engineering

- · Promoted from SDE II.
- Pioneered a batching/clustering approach to Alexa Engine data mining and modeling, improving accuracy by 40% and saved \$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 half of team 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 factor of 10.
- Published hardware requirements for Prime Day, Black Friday, and Christmas 2018 2020.

Senior Data Engineer

11/2016 - 03/2018

04/2018 - Present

Susquehanna International Group (SIG)

- · Promoted from Financial Engineer.
- Established real-time hardware asset tracking and distribution system to mitigate inter-team coordination issues via
 efficient automated scaling.
- · Developed real-time reporting mechanism on firm's market-making transactions to ensure FINRA compliance.

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 through reporting and analysis of user feedback and telemetry (e.g., recommended default auto-sync time of 15 minutes).

Software Engineering Intern

05/2014 - 08/2014

Amazon Web Services (AWS) - Elastic Block Store

 Synthesized 6 teams' logging systems into single common logger, achieving 15% speed-up and halving debugging/troubleshooting time.

Full-Stack Web Developer Intern

12/2013 - 02/2014

LeanFM Technologies, LLC

- Assisted startup launch seeking to leverage big-data analytics and Internet-of-Things for smarter, more efficient building management.
- Designed administrative interface to view sensor data and trigger adjustive actions.
- Identified best cloud computing solutions for managing data flow among components.

Web Applications Course Developer and Assistant

05/2013 - 12/2014

Carnegie Mellon University

- Collaborated with professors to redesign the course from the ground-up.
- Created course administration platform for project submissions and evaluations.
- · Directed 105+ students' projects by specifying requirements, tracking progress, and evaluating the final solutions.



Drone-Megaddon

Programmed drone fleet management app.

MedHub

Authored medical issue crowdsourcing app.

Hand-2048

Enhanced 2048! to respond to hand motions

Synonyms Crawler

Built web crawler to generate synonyms, perform sentiment analysis.

MyStockEx

Created custom stock exchange

Real-Time Linux Kernel

Constructed real-time embedded Linux operating system.

Tweet Miner

Mined 200GB within \$50 budget.

Accenture 2014

Analyzed 2014 ACN stock, recommended buy.

Sairam Krishnan

Engineering Solutions Architect

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EDUCATION

MS in Electrical and Computer Engineering

Carnegie Mellon Universit 08/2014 - 12/2014

BS in Electrical and Computer Engineering

Carnegie Mellon University 2010 - 2014

Minor in Business Administration

Carnegie Mellon University 2010 - 2014

ME 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)

Collaboration and Teamwork

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 and Operations
Samurai

Amazon SDE Bootcamp Trainer

Microsoft Maker Club (Volunteer)

SIG 5K Race for Funding Inner-City Schools (Volunteer)

Toastmasters International (Member)

Avid Numismatist

Amateur Historian

Personal Portfolio Manager (~\$500K in