Sairam Krishnan

Software Development Engineer,
Aspiring Tech Consultant

✉ sairambkrishnan@gmail.com
📞 281-513-1263
in linkedin.com/in/sairambkrishnan
github.com/SaiWebApps
🏠 1461 240th Ave NE
Sammamish, WA 98074

👤 SUMMARY

Senior software engineer with specializations in embedded systems, data science, cloud computing, and machine learning; and wide-ranging experience in small (LeanFM Technologies), mid-sized (Susquehanna International Group), and large (Microsoft, Amazon) companies. Striving for MBA in order to make an impact on increasingly dynamic world by complementing engineering expertise with business savvy.

💼 EXPERIENCE

Senior Software Engineer   04/2018 - Present
Amazon - Alexa AI Engineering

- Pioneered a smarter, batching/clustering approach to data mining and modeling within Alexa Engine, which improved accuracy by 40% and saved $40 million per year.
- Introduced and implemented a plaform for rapid development and deployment to streamline Alexa Engine's 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 (initially peaked at 40 but now 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.
- Computed hardware requirements for peaks (Prime Day, Black Friday, etc.) and pushed management for extra hardware as needed.

Senior Data Engineer   11/2016 - 03/2018
Susquehanna International Group (SIG)

- Proposed and implemented real-time hardware asset tracking and distribution system, which significantly mitigated inter-team coordination issues and instituted truly automated, efficient scaling for the first time.
- Drove development of real-time reporting mechanism on firm's market-making transactions, particularly focusing on compliance with FINRA rules.

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.
- Guided management through reporting and analysis of user feedback and telemetry. E.g., pushed for starting default Auto-Sync time of 15 minutes based on average time between manual syncs within Mail app on Windows 8 and Windows 10 Insider Builds.

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

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

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

- Helped launch startup seeking to leverage big-data analytics and Internet-of-Things for smarter, more efficient building management.
- Designed administrative interface to view sensor data and send commands to controllers to trigger adjustive actions.
- Determined and adopted best cloud computing solutions for managing data flow between sensors, controllers, and the administrative interface.

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

- Collaborated with professors to redesign the course from the ground-up (exploring newer technologies, introducing more practical exercises and demos, etc.).
- Created course management and administration platform for project submissions and evaluations.
- Directed 105+ students' projects as Agile Product Owner by specifying requirements, tracking progress, and evaluating the final solutions.

🛠 PROJECTS

Drone-Megaddon
Developed drone fleet management app.

Hand-2048
Enhanced 2048! to respond to hand motions.

My Stock Exchange
Created AI offering stock recommendations and price projections.

Tweet Miner
Mined 200GB of tweets within $50 budget.

🔤 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)
Microsoft Maker Club (Volunteer)
SIG 5K Race for Funding Inner-City Schools (Volunteer)
Toastmasters International (Member)
Amazon Security/Privacy Certifier and Operations Samurai
Avid Numismatist
Amateur Historian
Personal Portfolio Manager (~$500K in stocks/options/mutual-funds)