

# Srikanth K. Agaram

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## WORK EXPERIENCE

*Senior Software Engineer, Google Inc.*

Jan '16—Current

Designed and built infrastructure and UI for transactable experiences in Google Shopping.

- Designed, coordinated and managed the development of the Buy on Google, Ship to Store project across seven teams.
- Designed and built a data pipeline to verify the data quality of crawled data for shopping products and raise alerts when errors are found.
- Built a data pipeline to find popular products and product categories, and serve these as a homepage for each merchant.
- Implemented a data pipeline to choose between merchant feed product data and crawled data and move the logic from request time to an offline job.
- Added support for merchant supplied image swatches for displaying color or material data for each product.
- Mentored multiple recruits and an intern, helping them get up to speed on the Google Shopping codebase and the codebases of related Google services.

*Senior Software Engineer, Twitter Inc.*

Jun '14—Oct '15

Led the commerce web efforts at Twitter, building consumer experiences into the fabric of the website. Built a modern responsive ReactJS based frontend service to render commerce collections.

- Redesigned BuyNow on web to use React and Flux to simplify the codebase.
- Built generalized error handling framework for Twitter BuyNow.
- Implemented support for digital goods for BuyNow.
- Built a service using Scala and React to serve commerce Products and Collections.
- Implemented a masonry view in JavaScript (ES2015) for commerce collections.
- Mentored an intern and oversaw the development of a curation tool for collections.
- Helped integrate CardSpring technology into Twitter.
- Implemented the web version of Twitter Offers using Scala and JavaScript.

*Software Engineer, CardSpring Inc. (Acquired by Twitter Inc.)*

Nov '11—Jun '14

Designed and implemented the API for a card linked service platform. Built a responsive and interactive interface for merchants to view and analyse the performance of their marketing campaigns.

- Designed a distributed, secure, fault tolerant and high availability system across AWS using Ruby on Rails.
- Administered Linux systems including administration, configuration, troubleshooting and security.
- Designed and built a PCI (Level 1) secure service to handle millions of daily transactions.
- Automated provisioning configuration and deployment using tools like chef.
- Designed and implemented an intuitive interface for merchants to run their campaigns.
- Implemented a Ruby on Rails ORM for Cassandra.

- Built interactive visualisations to help analyse customer transaction data.

*Software Engineer, Google*

Dec '10—Nov '11

Developed the next generation AdWords platform using Java and GWT. Designed a more usable and intuitive interface to help advertisers manage simple and complex campaigns. Developed new web and mobile interactive features for the Google eBooks store.

*User Experience Engineer, Collisse Group Ltd.*

Dec '08—Dec '10

Designed and helped build an intuitive and frictionless user experience for a social betting site.

- Applied customer development techniques to determine the users' workflow.
- Developed flows to guide the user through a set of related tasks.
- Implemented a seamless authentication system to enable seamless workflows.
- Built convenient interfaces for other systems like payment and image upload.

TOOLS AND EXPERIENCE

Security	6 years experience working with PCI (level 1) secured systems.
Databases	6 years experience using NoSQL databases like Cassandra. 9 years experience using MySQL and SQLite.
Cloud Computing	3 years experience working with AWS tools. 3 years experience with Google cloud tools.
C/C++	11 years experience in multiple codebases.
Java	8 years experience with Java applications.
Ruby on Rails	10 years experience in web application development.
HTML/CSS	8 years experience including SASS, LESS and PostCSS.
Javascript	10 years experience with major web frameworks like ReactJS.
Scala	2 years with functional codebase in Scala.
Haskell	2 years experience with purely functional codebases.

EDUCATION

M.S., Information and Computer Science <i>University of California Irvine</i>	May 2005
Bachelor of Technology (Hons), Electrical Engineering <i>Indian Institute of Technology, Kharagpur</i>	May 2002

PUBLICATIONS

<i>SPIE's 20th Annual Symposium Electronic Imaging Science and Technology</i>	Jan 2008
Event-Centric Media Management <i>ACM Multimedia</i>	Oct 2006
Event-Centric Multimedia Data Management for Reconnaissance Mission Analysis and Reporting <i>AAAI Workshop on Event Extraction and Synthesis</i>	Jul 2006
Event Discovery in Multimedia Reconnaissance Data Using Spatio-Temporal Clustering	

PATENTS

<i>US Provisional 61/348,184</i>	May 2010
System and Method for Bidding on Outcomes in a Set of Outcomes <i>US 2009/0319472 A1</i>	Apr 2008
Event Based Organization and Access of Digital Photos	