

Srikanth K. Agaram

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WORK *Member of Technical Staff II, eBay* Dec '17—Current
EXPERIENCE Led, designed and implemented projects for the Motors and Selling groups at eBay.

- Led the engineering design and drove the implementation of Parts Installation for eBay Parts & Accessories on the new Value Added Services platform. This would allow users to attach installation services for the parts they buy on eBay.
- Drove the engineering design of a new Value Added Services platform on eBay involving Motors, Shipping, VAS and Checkout teams. The new platform would replace the older Addons platform.
- Led the engineering of a cross-org cross-platform project to attach tire installation services to the sales of tires on eBay.
- Led the engineering of a cross-org multi-team effort to design and implement a unified interface to all types of offers at eBay as a JAVA service. Migrated 1.5 billion requests from direct DB calls to the new interfaces.
- Led, designed and implemented counteroffers capability for Seller Initiated Offers (SIO). The counter-offer functionality was launched on Web, mobile web, Android and iOS platforms.
- Designed public APIs to support the new unified offer interfaces for eBay's API sellers.
- Led, designed and implemented an integrated "Instant Sale" system into eBay's listing flow in JAVA, HTML and CSS. The system allows sellers to sell instantly at the time of listing to eBay's third party resale buyers.
- Designed and implemented a secure and automated price adjustment service that would allow sellers to automatically reduce the sale price of an item based on demand.

Senior Software Engineer, Google Jan '16—Nov '17
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 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 (Acquired by Twitter) 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, Betable 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

Java	14 years experience with Java web services and applications.
Security	6 years experience working with PCI (level 1) secured systems.
Databases	12 years experience using NoSQL databases like Cassandra.
	15 years experience using MySQL and SQLite.
HTML/CSS	15 years experience including Flexbox and Grids.
Javascript	15 years experience with major web frameworks like ReactJS.
Ruby on Rails	10 years experience in web application development.
Cloud Computing	5 years experience working with AWS tools.
	3 years experience with Google cloud tools.
C/C++	11 years experience in multiple codebases.
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	