Address: 55 Trumbull St, Apt 6, San Francisco, CA Phone: 917-239-5847 Email: sak2144@columbia.edu

Education

Columbia University, Fu Foundation School of Engineering and Applied Science MS Computer Science

New York, NY December 2008

University of Mumbai BE in Computer Engineering Mumbai, India June 2006

Professional Experience

Groupon Inc, Palo Alto, CA

Apr 2013 - Present

Groupon API Team

- Led the effort to re-write several REST API endpoints to a new framework built upon Vert.x with Java. It made our response times for several endpoints 10X faster while at the same time reducing the physical hardware by 40% from the Ruby on Rails stack.
- Designed and developed API Proxy that sits as a layer above the public facing endpoints and provides SSL termination, rate limiting, client throttling, traffic shaping and addition of default headers out of the box.
- Managed a team of 3 people and introduced several improvements to existing project management like using scrums and dashboards for visibility with focus on an environment for ownership of features by developers
- Coordinated with several teams both clients and backend to develop new features and endpoints
- Owned development, testing and deployment of several key features and endpoints from start to the finish including providing graphing and monitoring for them

Barclavs Capital, New York, NY **Cash Equities - Tiger**

Mar 2009 - Apr 2013

Mar 2011 – Apr 2013

- Designed and developed a desktop based GUI for trade entry and ticketing for cash and options trades supported by an order management system using Java and Java Swing
- Instrumental in adding new flows like sales to trader and sales/trader to broker with timestamp based ticketing
- Regularly interacted with sales and position traders and built relationship them, requirements gathering, prototyping new features and user training on the trading floor
- Led the effort to build tools for support teams like request logs and user monitor tool, mentored new team mates and supported the application with bug-fixes and troubleshooting issues
- Managed release process and coordinated with QA, support and Dev teams for bi-weekly releases

Barclays Graduate Rotation Program

1. Research IT

Sept 2010 - Feb 2011

- Developed bond calculators for Brazilian and South African inflation-linked bonds used for finding values like yield, volatility and so on using C++ and XML
- Developed scripts for extracting past expiry information for inflation linked bonds using Perl

2. Prime Services Synthetics

Apr 2010 – Aug 2010

- Built reports detailing the position, activity and dividends of equity swap trades for various clients using a Sybase data warehouse. Developed stored procedures for extracting data using SQL
- Developed install and build scripts for installing and packaging the equity swap management system (Delta1) using Perl

3. IT Operations - Reconciliation System

Sept 2009 - Mar 2010

- Designed and developed a centralized system for collecting "breaks" from reconciliation systems or manual file uploads using Java with Spring and Hibernate
- Used by Operations team to run reports to analyze various trends like total number of daily breaks based on different input parameters like account name, user name
- Successfully gathered requirements, built the engine and released it to the users. Coordinated support activities for the in house reconciliation engine and built reconciliation rules

4. Cash Equities

Mar 2009 – Jul 2009

- Developed tools to perform administrative tasks like setup user accounts and configuration, filter orders from other users and quality control for market data feeds using Java and Java Swing
- Valuable in refactoring the source code to modularize it by exploiting the Java OO features of abstraction and inheritance
- Coordinated efforts in packaging and releasing the application for London users

5. Fixed Income, Rates (Intern)

Summer 2008

- Designed web based **Trade Support Tool** for Interest Rate swaps that helped developers, traders and support team in **quick access** and **analysis** of trade data, using **JSP and Java**
- Represented raw XML and log file data in tabular and tree formats that helped identify errors during testing and enhancement of the trade capture workflow system
- Followed software development methods and made extensive use of prototypes and UI design techniques

Software Engineer, Infosys Technologies Ltd, Pune, India

Jun 2006 - Jul 2007

- Developed the Decision Table functionality for Interstage Business Process Management (IBPM), a workflow management tool
- Performed testing and bug fixing for UI and server using Junit scripts

Technical Skills

Languages: Java, C++, C, SQL, XML, Hibernate, Spring Framework, VertX

Web technology: JavaScript, JSP

Databases: MySql, SQL 2003/2005, Oracle 10g

Relevant Projects

Research Projects

Spam Analysis and Reputation Project

Columbia University

- Gathered statistical data about the fields present in email header and body that can be used to distinguish between non-spam and spam mails using **Java**.
- Analyzed which fields act as strong filters for spam mails and generated inference that can be used to strengthen the spam protection engines.

Achievements

Awarded the outside the box project award for Groupon Hackathon

Groupon

- Winner of the Barclays Evolution Challenge an outside of work opportunity to present an idea valuable to the bank
 Barclays Capital
- Awarded TA Fellowship for excellent performance as Teaching Assistant Columbia University