

AMIT KUMAR

B-701, Riviera ▪ Thane, MH 400607 ▪ Phone: +91 961-948-3353 ▪ toamitkumar@gmail.com

Github: <http://github.com/toamitkumar>, Twitter: toamit, Blog: toamitkumar.com

Presentations: <http://confreaks.com/presenters/440-amit-kumar>, <https://vimeo.com/61255647>

SOLUTION ARCHITECT – MCKINSEY & COMPANY

Highly-experienced software architect with a strong passion for engineering team-building, Agile process methodologies, and user-centric, feature-based web software design. Strong background in using open source tech for enterprise software. Proven track record of building up and improving existing web software teams, introducing new ideas and new technologies to solve immediate software challenges, and taking enterprise software apps to award-winning levels, via both planning and implementation.

Expertise Highlights

- Object Oriented Design Principles
- Secured Software Architecture
- Web Application Development
- Public Speaking
- Automated Deployments
- Test Driven Development
- Major Software/Systems Implementations
- Distributed Team Management
- Agile Scrum Expert
- Technical Writing (Manuals/System Specs)

Technology Summary

- Presentations/Speaking:**
- Spakeer at Ruby Conference Australia (Melbourne)
 - Speaker at Golden Gate Ruby Conference (SF, USA)
 - Speaker at Ruby Conference (New Orleans, USA)
 - Speaker at MongoDB Conference (Philadelphia, USA)
 - Ruby and RubyMotion User Groups (NYC & SFO)

Frameworks/Tools: Ruby on Rails, Sinatra, Rack, Haml, RVM, DelayedJob, RubyMotion, Solr, jQuery, jQueryUI, HighCharts, jQueryMobile, RSpec, Nginx, Passenger, Apache, Capistrano, Chef, Selenium, Watir, Git, JSON, Spring, Hibernate

Systems: OSX, Linux, Windows

Languages: Ruby, Objective-C, Java, SQL, JavaScript, HTML 5, CSS, CoffeeScript

Databases: MySQL, Oracle, MongoDB, Redis

- Processes/Misc:**
- Agile Scrum evangelist
 - Object Oriented Design Principles
 - MVC Design Pattern
 - Continuous Integration (Cruise Control, Jenkins)
 - Automated Deployment
 - Friction-less development

Professional Experience

McKINSEY & COMPANY

Jan'13 to till date

Sep'07 to Dec'12

TATA CONSULTANCY SERVICES LIMITED, NEW YORK

Software Architect, Rails Developer, RubyMotion Developer

1. Marketing Media Mix (MMM) Decision Support Tool

MMM Decision support iPad app is a demo tool showcasing the main features of MMM methodology. This App will enable users to be able to visualize their historical marketing investments, econometric responses, ROIs and also enable them to create simulations and create scenarios towards the optimum mix of investment.

Key Results:

- Native application developed in RubyMotion
- Built data visualization charts using Core-Plot Objective-C library
- Convert excel model of marketing mix into JSON object for native application
- Established continuous integration on Jenkins (mac-mini) for RubyMotion

2. Process 360⁰

P360 is a decision support tool for Consultants and Clients. The tool facilitates effective decision-making through visual data analysis, performance assessment against benchmarks, root cause identification, tracking of progress for transformational initiatives and scenario analysis leading to solution options.

Key Results:

- Designed Server Architecture for automating deployment process as part of DevOps initiative in the firm.
- Created 'Chef' scripts to bootstrap servers to automate deployment process
- Created Single-Sign-On for commercial extranet environment of the client
- Designed scalable model of dimensional database
- Built chart export service using Java POI library. The service is technology agnostic and uses JSON to create MS Powerpoint files from pre-existence templates.
- Extended 'devise' rubygem to integrate with Active Directory
- Used HighCharts for data visualization requirements

3. Advanced Healthcare Analytics

Advanced Analytics application for Healthcare System in UK. The tool helps derive more informed decision-making to maximize profit. It helps in maximizing saving opportunities in operations of the healthcare system. The tool also helps to define initiatives towards savings and track them.

Key Results:

- Multi-dimensional database design
- Created ruby gem to connect to multi-dimensional data in Cubes of Microsoft Analysis Services
- Used 'SM' scripts to bootstrap servers for automated deployment process
- Used HighCharts for data visualization requirements

4. Enterprise Micro-Blogging Application

Micro-Blogging application for a large enterprise. The application was integrated with many internal downstream applications to consume data for building profile of each employee.

Key Results:

- Designed flattened data structure for scalability
- Used MongoDB to store the thread like message structure
- Session storage in redis for faster performance
- Monitoring Passenger and performance tuning

- Message Queues for sending notifications
- Integration with lotus notes API

5. Knowledge Nuggets

Knowledge Nuggets is an application that integrates with the existing Knowledge Site for sharing of documents within consultants with a shorter workflow and validation. Based on Spring MVC and ORM framework with Verity as search engine and Oracle as backend.

Key Results:

- Designed flattened data structure for scalability
- Oracle backend to store nugget meta-data
- Used iSpringConverter to create thumbnail images of powerpoint attachments that can be reviewed before downloading the nugget
- Used Spring MVC and Hibernate ORM
- Websphere deployment

TATA CONSULTANCY SERVICES LIMITED, MUMBAI

Apr'05 to Aug'07

Rails Developer, Java Developer

- 1. Global Profit Pools**
- 2. Online Payment Gateway Implementation for VSNL Broadband**

TECH MAHINDRA, MUMBAI

Dec'03 to Mar'05

Java Developer

- 1. BT.com Broadband**

White Papers Published

- **Building Scalable Micro-Blogging Solution for Enterprise**
- **Healthcare Analytics Application using Open Source**
- **Building People-Oriented Knowledge Systems**

Education

JAWAHARLAL NEHRU UNIVERSITY– NEW DELHI, INDIA

Master of Computer Applications (MCA), 2003

MAGADH UNIVERSITY, PATNA, BIHAR, INDIA

Bachelor of Science (Physics Hons), 2000

References

Available upon request