

# SASHA AZAD

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## EDUCATION

### Georgia Institute of Technology (2014-2016 expected)

In Progress

MS in Computer Science (Specialisation - AI & HCI)

### University of Mumbai (2007-2011)

GPA : 3.8

Bachelor of Engineering (Computer Engineering)

1st Class (with Distinction)

## EXPERIENCE

### CAPGEMINI INDIA PVT. LTD. — Software Engineer('12), Senior Software Engineer('13), Consultant('13) Sept '12 - Jun '14

Developed native, web and hybrid mobile applications using Sencha Touch, PhoneGap & iOS.

- **Bayer iRecords** - Developed a diabetes monitoring system to track users' health on a set of interactive graphs using Sencha Touch for Android & iOS. Also developed a remote sync of patient details to their personal physician so as to be warned of impending health issues automatically.
- **Farm Segmentation** - Built an internal enterprise app for Bayer field assistants to survey ~300,000 farms in rural India. Extended server-side code to automatically allocate farms & tasks based on the surveyor's GPS.
- **Bayer FQ App** - Developed a medical reference app for physicians prescribing Bayer Avelox & Bayer Ciproxin.
- **Bayer GardenDoktor** - Extended the Bayer GardenDoktor app to a mobile web based one so as to be accessible by users independent of their device or OS.

### BAYER BUSINESS SERVICES — Software Engineer ('11), Application Analyst ('12)

Jul '11 - Aug '12

Initiated the first mobile development team in BBS-IDC India. Trained & integrated 2 more employees into the team.

Conducted R&D on the set up, platforms recommended to the customer, and technologies used.

Created wireframes and interactive prototypes for Enterprise & Consumer applications.

Worked on Sencha Touch, Objective C, AR, Google Maps, FB/Twitter APIs, QR Code, and Cordova.

#### Internal Enterprise Projects (Portfolio available to show in person) :

- **Bayer Eco Commercial Building** - Worked independently to build a Mobile Web iPad app to remotely collect data from a green building & showcased its business energy viability in interactive graphs. Currently being used internally for clients. Named as one of the best apps in the organization for 2011.
- **Bayer Field Monitoring System** - Worked independently to develop an app for Android tablets used by Bayer India employees to monitor field work. Developed GPS connectivity to a back-end server with nearest-neighbour algorithm to allocate tasks to over 10,000 field analysts.
- **Meeting Room Scheduler** - Worked in a team of 4 to port the Outlook based meeting room scheduling to an iPad. Developed a visually appealing display of the availability of the rooms.
- **Store Locator** - Worked with a team of 4 to create a prototype that read the product QR codes to guide the user to the nearest Bayer supplier for the product using Augmented Reality.

### DESIGN ELEMENTS, MUMBAI — Summer Intern for Web Development

June 2010

One of 3 students out of 75 selected for Summer Internship, developed a dynamic website for Tadaatma.

Developed a Lead Management System (LMS) and Content Management System.

## SKILLS

### Mobile Technologies

Sencha Touch, PhoneGap, Objective C, Layar AR API, jQuery Mobile, basic iOS

### Programming

Python, HTML5/Javascript, Java, C/C++, AppleScript, MySQL, SQLite

### Design & Prototyping

Wireframes, Omnigraffle, Keynote, User Research, Storyboards

### Tools

Xcode, Sublime Text 2, Netbeans

## ACADEMIC PROFILE

### Artificial Intelligence

#### Solving the Raven's Progressive Matrices using Knowledge Based AI

Achieved 60% accuracy by using frames, problem reduction & case-based reasoning.

#### Intelligent Self Learning Conversational Agent

Bachelor's Research Project. R&D of an Artificial Intelligence Chatterbot that attempted to beat the Turing's Test and expanded it's knowledge from user interaction and the internet using case-based reasoning.

### Mobile App Development

#### TaskIt : A Task Scheduler for the Home

Handled the front-end from conception to development for Mobile Web calling a Django backend. Created a combined grocery list with integration to VenMo & Splitwise. Currently developing an iOS app for the same with location based notifications. **TaskIt won the Fall '14 Georgia Tech CIC competition.**

#### Universal ATM Locator Application

Independently developed a hybrid mobile application that used Google Maps API to enabled the user to locate and rate the ATMs in the area on functionality and speed.

### Game AI & Storytelling

#### Multiplayer RPG Murder Mystery (iOS)

An AI Simulator generated a murder mystery (with motives) given a set of characters. The AI Game Master controls when to divulge clues & plot-lines to players. A quest generator was created for improvement of gameplay.

#### Creation of a Player-Centric Dynamic Game AI

Creation of a personal AI game playing agent that can judge the personality and skill of a human playing a game and make moves to match this characterisation.

### Institutional Projects

#### Online Meeting Scheduler

Developed a portal providing a platform to share resources across college administration and clubs. The portal is still being used by the institution.

## TECHNICAL REPORTS & PRESENTATIONS

### Artificial Intelligence

#### Artificial Intelligence Chatterbots : A Spokesman For Your Business

Co-authored a report and presentation delivered to college conference.

#### Detection of Mini-Substitution Errors on a QWERTY Keyboard

Co-authored a paper analyzing data obtained from participants typing over 1mil keypresses comparing the performances of 4 classification algorithms.

## ACTIVITIES

### At Georgia Tech

- Senator representing the CS Dept. at Student Government Association
- CRIDC (Career, Research & Innovation Development Conference) Committee
- Student Faculty Coordinator for campus
- Member of Joint Campus Organisations Committee
- Marketing Team, India Club @GT Gradworks

**2014 -  
current**

### At the Workplace

- Chief Editor for the Capgemini monthly Newsletter, BayCap Beacon
- Delivered the keynote presentation at the One Year Capgemini-Bayer merger

**2013-2014  
2013**

### At Undergrad. Level

- Elected Chairperson of the Computer Society of India, Fr. CRCE
- Head of CodeChef Student Chapter
- One of 5 students chosen nation-wide as Editor for CSI India Magazine
- Head of Committee for National Student Convention 2 years running
- Public Representative (PR) Head Student Council, Fr. CRCE
- Chief Editor for Fr. C.R.C.E Magazine - FragMag '09

**2009-2011  
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