

# Prateek Agarwal

Ruby ☆ Python ☆ Services ☆ Cartooning

✉ [prat0318@cs.utexas.edu](mailto:prat0318@cs.utexas.edu)

☎ +1 (512) 698-3649

🌐 <http://prat0318.github.io>

## 🔗 GitHub Projects

- **prat0318/json\_resume** » Details at [prat0318.github.io/json\\_resume](http://prat0318.github.io/json_resume)
  - Static personal page and resume design using Mustache.
  - Current resume is generated using json\_resume.
  - Over 900+ stars on Github. Front page of Hacker News
- **prat0318/2048-tetris** » Live at [2048-tetris.com](http://2048-tetris.com)
  - Wrote a Tetris variant of 2048 game, 1M+ unique visits
  - Front page of Hacker News(~150 pts), mentioned in TechCrunch.
- **prat0318/gitator** » Live at [Gitator.com](http://Gitator.com)
  - Finds relevant repositories based on an user's GitHub profile.
  - Written in Ruby on Sinatra and uses Github's Octokit gem

## 🛠 Technical Skills

- Programming Languages: [Ruby](#) [Python](#) [Java](#) [C++](#) [Javascript](#)
- Web Frameworks: [Sinatra](#) [Django](#) [Rails](#) [Apache](#) [nginx](#)
- Databases: [MySQL](#) [PostgreSQL](#) [IBM Informix](#) [IBM DB2](#)

## 🎓 Education

Degree	Major	Institution	Graduation Year	GPA
Master of Science	Computer Science	University of Texas at Austin	2015	3.55/4
Bachelor of Technology (Hons.)	Computer Science	Indian Insitute of Technology, Kharagpur (IN)	2009	8.91/10

## 🏆 Academic Achievements

- Was among the top 5% in the institute merit list of the undergraduate batch at IIT Kharagpur.
- Secured 383rd Rank in IIT-JEE 2005, an exam conducted by Indian Institute of Technology(s).

## 💼 Professional Experience

- Software Engineer Intern, Yelp, Inc., San Francisco (May, 2014 – Aug, 2014)
  - Wrote a Python package '[swagger-py](#)' to create generic client library for a service which has a [swagger](#) schema defined.
  - Technologies got to work on: [Python](#) [Swagger v1.2](#) [twisted](#)
- Graduate Research Assistant, CTR, UT Austin (Sept. 2013 – Jan. 2014)
  - Developed a common web interface <http://unitydatabase.com> to search through different datasets and output aggregate results and ensuring easy pluggability of new datasets.
  - Technologies got to work on: [Python](#) [Django](#) [South](#) [PostgreSQL](#)
- SDE II (Software Development Engineer II), Flipkart, India (Apr. 2013 – Jul. 2013)
  - Wrote a ruby gem *Morsel* to traverse through active record trees to purge old records. It helped in limiting the production database size and keeping the data clean.

- Software Development Engineer, Flipkart, India (Jun. 2011 – Mar. 2013)
  - Was part of a team which developed the warehouse module in RoR framework from scratch. It now scales to around 10X as compared to the ERP system existed.
  - Designed warehouse stock snapshots and stock ledger framework using Pig scripts to make the supply chain system legally compliant.
  - Technologies got to work on: `Ruby` `Java` `Pig` `Active Records` `MySQL`
- Software Engineer, IBM Software Labs, India (Jul. 2009 – Jun. 2011)
  - Handled high priority issues for JDBC client driver for IBM Informix database.
  - Was awarded Smart CADian award for resolving an obscure deadlock situation, making Informix JDBC driver more robust.
  - Technologies got to work on: `Java` `IBM Informix` `IBM DB2`

## ⚙ Other Personal Projects

- Designed product *Omerta*, a multi-user chat room application in j2me using Sun Wireless Toolkit platform.
  - Was awarded 1<sup>st</sup> position for the product in **Envision**, Product Innovation Contest, IIT KGP.
  - Was awarded 1<sup>st</sup> position for the product in Javawise, J2ME s/w Development Contest at IIT Kharagpur, 2008 and 2009 continuously.

## 🏛 Graduate Courses Taken

Distributed Computing	Feature Oriented Programming
Multicore Programming	Engineering Programming Language

## ✍ Research Experience

- Undergraduate project, Sanyog Lab, IIT Kharagpur (Jul. 2008 – May 2009)
  - Designing and Formal modelling of embedded systems for project Sanyog.
  - Skills Developed: Low level system design, theorem verification using Prolog and Coq
- Summer Intern, Network Systems Lab, IIT Kharagpur (May 2008 – Jun. 2008)
  - Design and simulation of currently published Pull-based Freshness Schemes in C++.

## 🎵 Extra Curricular Awards

- Was awarded 2<sup>nd</sup> position in Bionetics, Coding Event, Genesis 09 at IIT Kharagpur.
- Microsoft Student Partner of IIT Kharagpur from the period July 08 – June 09.