

# Prateek Agarwal

Ruby Python Cartooning

prat0318@cs.utexas.edu

+1 (512) 698-3649

<http://prat0318.github.io>

## Qualifications Summary

- Competent at managing responsibilities in a high-volume atmosphere
- Hard worker, quick learner, and ability to assume responsibility

## GitHub Projects

- **prat0318/2048-tetris** » Live at **2048-tetris.com**
  - Wrote a Tetris variant of 2048 game, 1M+ unique visits
  - Made it to the front page of Hacker News for a day(~150 pts), mentioned in TechCrunch.
- **prat0318/gitator** » Live at **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** **PHP**
- Web Frameworks: **Sinatra** **Django** **Rails** **Apache**
- 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

- 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 used: **Python** **Django** **South** **PostgreSQL**
- Software Development Engineer, Flipkart, India (Jun. 2011 – 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.
  - 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 used: **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 used: **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

## Undergraduate Courses Taken

### Network Systems

### Graph Theory

## 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

## Patents

- US Patent X,XXX,634 **Another exotic title like bed cover with an inflatable human form.** , issued on September 15, 1992.

## Publications

- Michl Dugls, Mrclø Dsconi **Some exotic dummy title like potentials arising from string compactifications**, arXiv: 1206.1885, June 2012.

## Memberships

- Member of the ACM awesomest humans secret group, 2008-present

## 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.