

# Prateek Agarwal

Ruby ★ Python ★ Cartooning

☎ +1 (512) 698-3649  
✉ prat0318 @ cs.utexas.edu  
📄 prat0318.github.io  
in prat0318  
📧 prat0318

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## QUALIFICATIONS SUMMARY

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

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## TECHNICAL SKILLS

- **Programming Languages:** Ruby, Python, Java, C++, Javascript, PHP
- **Web Frameworks:** Sinatra, Django, Rails, Apache
- **Databases:** MySQL, PostgreSQL, IBM Informix, IBM DB2

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## GITHUB PROJECTS

- **prat0318/2048-tetris** - Live at [2048-tetris.com](http://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](http://Gitator.com)
  - Finds relevant repositories based on an user's GitHub profile.
  - Written in Ruby on Sinatra and uses Github's Octokit gem

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## PROFESSIONAL EXPERIENCE

Sept. 2013 - **Graduate Research Assistant, CTR, UT Austin.**

- 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

Jun. 2011 - **Software Development Engineer, Flipkart, India.**

- 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

Jul. 2009 - **Software Engineer, IBM Software Labs, India.**

- 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

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## 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.

## EDUCATION

- 2015 **Master of Science, Computer Science**, *University of Texas at Austin*, GPA: 3.55/4.
- 2009 **Bachelor of Technology (Hons.), Computer Science**, *Indian Insitute of Technology, Kharagpur (IN)*, GPA: 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).

## GRADUATE COURSES TAKEN

- Distributed Computing
- Feature Oriented Programming
- Multicore Programming

## UNDERGRADUATE COURSES TAKEN

- Network Systems
- Graph Theory

## RESEARCH EXPERIENCE

- Jul. 2008 - **Undergraduate project**, *Sanyog Lab, IIT Kharagpur*.
- 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 *Another exotic title like bed cover with an inflatable human form.*, issued on September X,XXX,634 15, 1992.

## PUBLICATIONS

- Michl Dugls, Mrcllo 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.