

Prateek Agarwal

Ruby ★ Python ★ Git ★ Cartooning

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QUALIFICATION SUMMARY

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

TECHNICAL SKILLS

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

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, designed in Bootstrap.
- **prat0318/json_resume** - Convert JSON data to pretty resumes in .html, .tex, .md
 - Static personal page and resume design using Mustache.
 - Current resume is generated using json_resume.

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 got to work on: Python, Django, South, PostgreSQL
- Apr. 2013 - **SDE II (Software Development Engineer II), 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.
- Jun. 2011 - **Software Development Engineer, Flipkart, India.**
- 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
- 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 got to work on: Java, IBM Informix, IBM DB2

OTHER PROJECTS

- Designed product *Omerta*, a multi-user chat room application in j2me using Sun Wireless Toolkit platform.

- Was awarded 1st position for the product in *Envision*, Product Innovation Contest, IIT KGP.
- Was awarded 1st 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: 3.33/4.
- 2009 **Bachelor of Technology (Hons.), Computer Science**, *Indian Institute 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
- Multicore Programming
- Engineering Programming Languages
- Feature Oriented Programming
- Database Systems
- Introduction to Mathematical Logic

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
- May 2008 - **Summer Intern**, *Network Systems Lab, IIT Kharagpur*.
- Jun. 2008 ◦ Design and simulation of currently published Pull-based Freshness Schemes in C++.
- May 2007 - **Summer Intern**, *Telemedicine Lab, IIT Kharagpur*.
- Jun. 2007 ◦ Web based medical image browsing and annotation tools for PDA devices in .NET platform.

PATENTS

- US Patent 5,146,634 *Three zone bed cover with an inflatable human form.*, issued September 15, 1992.

PUBLICATIONS

- Michael Douglas, Marcelo Disconzi, *On the boundedness of ective potentials arising from string compactifications* arXiv: 1206.1885, June 2012

MEMBERSHIPS

- Member of the American Mathematical Society, 2008-present

EXTRA CURRICULAR AWARDS

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