

Prateek Agarwal

Ruby  Python  Git  Cartooning

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
- **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.

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
Master of Science	Computer Science	University of Texas at Austin	2015
Bachelor of Technology (Hons.)	Computer Science	Indian Insitute of Technology, Kharagpur (IN)	2009

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**
- 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 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 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.

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

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

+1 (512) 698-3649

<http://prat0318.github.io>