

Prateek Agarwal

Ruby ★ Python ★ Git ★ Cartooning

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🌐 <http://prat0318.github.io>

📖 Qualification 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.
- **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	GPA
Master of Science	Computer Science	University of Texas at Austin	2015	3.33/4
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 at 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) at 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 at 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 at 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 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	Database Systems
Engineering Programming Languages	Introduction to Mathematical Logic

✍ Research Experience

- Undergraduate project at 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 at Network Systems Lab, IIT Kharagpur (May 2008 – Jun. 2008)
 - Design and simulation of currently published Pull-based Freshness Schemes in C++.
- Summer Intern at 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 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.