

Prateek Agarwal

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TECHNICAL SKILLS

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

GITHUB PROJECTS

- **prat0318/json_resume** - Details at <http://jsonresu.me>
 - Ruby library to generate resume from JSON to HTML, pdf, md, tex formats.
 - Around 1K stars on Github. Front page of Hacker News
 - Current resume has been generated using json_resume.
- **prat0318/2048-tetris** - Live at 2048-tetris.com
 - Wrote a Tetris variant of 2048 game, 1M+ unique visits
 - Front page of Hacker News(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

EDUCATION

- 2015 **Master of Science, Computer Science**, *University of Texas at Austin*, GPA: 3.56/4.
- 2009 **Bachelor of Technology (Hons.), Computer Science**, *Indian Institute of Technology, Kharagpur (IN)*, GPA: 8.91/10.

PROFESSIONAL EXPERIENCE

- May, 2014 - **Software Engineer Intern**, *Yelp, Inc.*, San Francisco.
- Aug, 2014
 - Wrote a Python package <http://github.com/Yelp/swagger-py> to build dynamic client library for a service. It is currently being used in Yelp's production environment.
 - It reads the swagger schema to get the service specifications.
 - Built Hackathon project to call Yelp's public APIs directly from browser (with added OAuth support).
 - Technologies got to work on: Python, Swagger v1.2, twisted
- Sept. 2013 - **Graduate Research Assistant**, *CTR, UT Austin*.
- Jan. 2014
 - Developed a common web interface <http://unitydatabase.com> to search through different datasets.
 - Technologies got to work on: 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 the Supply chain team which remodelled and built a new one from scratch. It now scales to around 10X compared to the older system.
 - 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.

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.

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
- Advanced Operating Systems
- Engineering Programming Language

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++.

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.