Prateek Agarwal

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http://prat0318.github.io

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.

Technical Skills

Programming Languages: Ruby, Python, Java, C++, Javascript, PHP

Web Frameworks: Sinatra, Django, Rails, Apache

Databases: MySQL, PostgreSQL, IBM Informix, IBM DB2

Education

- **University of Texas at Austin**   Austin, TX
  Master of Science in Computer Science   *Jul. 2015*

- **Indian Institute of Technology**   Kharagpur, WB
  Bachelor of Technology(Hons.) in Computer Science   *Jul. 2009*
    - Was among the top 5% in the institute merit list of the undergraduate batch.

Professional Experience

- **University of Texas at Austin**   Austin, TX
  Graduate Research Assistant   *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

Other Personal Projects

- Designed product *Omerta*, a multi-user chat room application in j2me using Sun Wireless Toolkit.
    - 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
- Multicore Programming
- Feature Oriented Programming

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

Patents

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

Publications

"Security-Enhanced Darwin: Porting SELinux to Mac OS X", *Proceedings from the Third Annual Security Enhanced Linux Symposium* in Baltimore, MD, 2007.

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