Prateek Agarwal

Ruby ☆ Git ☆ Cartooning

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GitHub Projects

- 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/prat0318.github.io
 - Static personal page design with CSS and Bootstrap

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	Year of Graduation	GPA
Master of Science	Computer Science	University of Texas at Austin	2015	3.33/4
Bachelor of Technology (Hons.)	Computer Science	Indian Institute 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 **www.unitydatabase.com** to search through different datasets and output aggregate results and ensuring easy pluggability of new datasets.
- Technologies got to 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 on: Ruby Pig Python 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.
- Developed performance tests for pureQuery Hibernate accelerator's binding and static features and showcased its improvements over traditional DB2 JDBC driver.
- Was awarded Smart CADian award for resolving an obscure deadlock situation, making Informix JDBC driver more robust.
- Technologies got to on: Java IBM Informix IBM DB2

Other Personal Projects

- Developed gurukools.com(offline now) to connect alumni and current students of a campus.
 - Basic framework was a privately hosted IRC daemon to which a client connects through a web login. The motivation was to design a web interface which abstracts IRC technicalities from the user.
 - Learned about mail servers, COMET, long polling, trusted connections during development.
 - Wrote couple of bots in Tcl scripting language for channel moderation and word games.
 - Technologies got to on: PHP JavaScipt MySQL Eggdrop Lua
- 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

Research Experience

- Designing and Formal modelling of embedded systems for project Sanyog.
 - Undergraduate project under the guidance of Prof. Anupam Basu.

(Jul. 2008 – May 2009)

- 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)

- Under the supervision of Prof. A. K. Majumdar and Prof. J. Mukhopadhyay
- Web based medical image browsing and annotation tools for PDA devices in .NET platform.

☐ 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.