

Aamir Khan

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Relevant Courses :

Computer Systems and Programming
Data Structures
System Software
Computer Architecture and Microprocessors
Discrete Structures

Theory of Computation
Operating systems
Software Engineering
Algorithms

Technical Skills :

Programming Languages	C/C++, Python
Web Development	PHP, HTML, CSS, Javascript
Operating System	Ubuntu, Windows
Database	Postgresql, MySQL
Frameworks	Kohana (PHP), Django (python)
Others	vim, Subversion, GIT, Eclipse.

Experience:

Google Summer of Code (April 2012 - August 2012)

Organization : Python Software Foundation

HyperKitty is GNU Mailman 3 archiver. It aims to solve various problems in decade old pipermail archiver and provide additional features to serve the content in more user friendly web interface. This is a Django application which connects to Mailman 3 using IArchiver Interface. For more details visit [Project page](#)

Intern at Dyn Inc. (NH, USA) (May 2012 - July 2012)

Dyn Email provides email delivery services with focus on deliverability, inbox acceptance. Work involved optimizations and scaling of Dyn Email platform to get prepared for high email volume in future. I proposed big architectural changes as well as small optimizations during the course of internship. I was able to improve the performance and stability of our main log processing script along with unit test coverage to match the modifications.

Intern at Mygola Inc. (Bangalore, India) (May 2011 - July 2011)

Worked on Kohana PHP framework for the development of website features.

Projects :

ownCloud (May 2011 - August 2011)

Season of KDE 2011

ownCloud is a flexible, open source file sync and share solution. I worked on synchronization of two OwnCloud server nodes. I essentially attacked the problem in three ways:

- Trivial method : Copying the complete file, not so optimal in case small changes are made to some big files.
- Using rsync to take care of synchronization.
- Using glip (<https://github.com/patrikf/glip>) to store files in form of git commits and transfer only the commit data when files are modified.

Ebooks sharing portal (April 2010 - October 2010)

Features : Upload a Ebook, Create your E-library, Share it with your friends/classmates, Advanced Search, Ajaxified Interface.

- Made the website from scratch using PHP and PostgreSQL.
- For advanced search, i created functions in native PL/pgsql language, so as to ensure the speed.
- Used ImageMagick to create thumbnails for the books for which thumbnails were not available.

Achievements :

- Google Code Jam round 1 qualified.
- Won iPad 2 in programming competitions organized by ivytech.
- Third prize winner of Adobe ExNihilo, web site designing competition organized by Adobe India Pvt. Ltd.
- IIT-JEE AIR 849 out of around 400,000 applicants.
- Awarded by Hon'ble Chief minister Delhi, Mrs. Shiela Dikshit for academic excellence in 10th class.
- Represented school at cluster level in Mathematics oral quiz competition in 10th class (high school).

Extra Curricular Activities :

Project Leader IMG, IIT Roorkee

IMG (Information management Group) is a student body solely responsible for developing and managing all Internet and Intranet applications in IIT Roorkee. We are a group of students who manages institutes [main websites](#) and Channel-i (intranet).

Entrepreneurship Development Cell, IIT Roorkee

The Entrepreneurship Development Cell of IIT-Roorkee , commonly known as EDC, has been established with the objective of creating, fostering and promoting the spirit of entrepreneurship among the youth of the nation. It is ranked among the top 5 E- Cells of India.

References:

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