



# Yash Mehrotra

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## CONTACT

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## EDUCATION

Computer Science

August 2013 — Present

Jaypee Institute of Information Technology

Overall CGPA - 6.1

Major GPA - 8.0

Achievements -

- Came 3rd in Execute 14.1 ( Intra-College Programming Contest)
- Came 4th in Execute 14.2 ( Inter-Hostel Programming Contest)
- Came 4th in Knuth Cup (Annual College Fest Programming Contest )
- Qualified for Knuth-Entrevista ( An Interview round for the top rankers of Knuth Cup )
- Volunteered for OSDConf 2014 , An open-source developer's conference organized by the Open Source Enthusiasts of the college.

## SKILLS

- Experienced in Programming in Python, JavaScript and C/C++.
- Familiar with Programming in Scala, Go and PHP.
- Experienced in Web-Frameworks like Django, Flask and Express.
- Familiar with front-end development using HTML, CSS , AngularJS, JQuery.
- Experienced in MySQL, PostgreSQL and Elasticsearch.
- Experienced in Version Control System Like Git and Mercurial.
- Comfortable in working with Linux ( Primary OS - Ubuntu Gnome)
- Tools - Vi/Vim, Zsh

## WORK EXPERIENCE

Mozilla

September 2015 — Present

Student Developer

- Working with Mozilla Security Team on **MozDef Platform** as a part of **Mozilla Winter of Security 2015**.
- Created new Virtual Reality Interfaces using three.js to visualize various threat actors and security breaches
- Worked on simulating those attacks on the Virtual Reality Interfaces using Elasticsearch and MongoDB.
- Fixed existing bugs in the MozDef Platform.
- **Project Home**: <https://github.com/jeffbryner/MozDef/>
- **My Contributions**: <https://github.com/jeffbryner/mozdef/commits?author=yashmehrotra>
- **Tech Stack**: MeteorJS, Python, Elasticsearch, MongoDB

## Software Engineer Intern

- **Castamere**: Authored an open-source tool with the aim to add an authentication layer. It was designed to be used with Elasticsearch for testing Elasticsearch servers in production. Link: <https://github.com/grofers/Castamere>
- Wrote **API Endpoints** for generation of financial reports, growth dashboard and geocoding related tasks. Implemented SCD (Slowly Changing Dimensions) Type II for keeping a track of discount coupons and their effects.
- **CMS**: Various bug-fixes and feature additions.
  - Integrated Celery for asynchronous task queuing.
  - Implemented caching throughout the site with a Redis Backend.
  - Integrated Travis CI for lint checking.
  - Implemented quality control layer for product checking.
  - Implemented SCD Type II for keeping track of changes in product details.
- **Analytics**: Wrote a system for analyzing the carts of the users by indexing them in an Elasticsearch cluster which were fetched through PostgreSQL and used Gearman as an asynchronous task processing queue to allow real-time indexing.
- Wrote a **Tech blog post** about using Gearman and Elastic search to index data real-time: <http://lambda.grofers.com/2015/07/31/keep-calm-and-index-everything/>
- **Tech Stack**: Python (Django, Flask), NodeJS (Express), PostgreSQL, Elasticsearch, Gearman.

## Pixpa Inc.

June 2014 — August 2014

## Web Development Intern

- **Integrated Social Login** Feature allowing users to signup/login through Facebook and created a module to link existing user's account with their Facebook Account. Also wrote a module to track a user's Login Frequency (for marketing needs).
- **Gallery Downloader**: A feature which allowed creative professionals to download their existing galleries as zipfiles using the Rackspace API.
- Made a **Customer Relationship Management Tool** which allowed users to manage and communicate with the customers for their websites. With the help of this tool, users could maintain their customers, and respond to them in an improved and efficient way.
- **User State Tracking System**: A tool which tracked the user's progress on the User's Dashboard. Devised an Algorithm which would suggest users various options to improve their Website's Traffic based on their current progress.
- **Tech Stack**: Python (Django), MySQL, JavaScript (Vanilla JS + JQuery) , PHP

## BookAway

August 2013 — July 2015

## Co-Founder, Lead Backend Developer

Created a website built for Buying , Selling and Renting Books among college students.

URL : <http://www.bookaway.in> (Not hosted currently)

Code: <https://github.com/yashmehrotra/Bookaway>

## My Role -

- Developed the whole backend for the website.
- Designed and Implemented the website's architecture which is based on RESTful API.
- Implemented Search Filters based on JavaScript to ease and pace the browsing experience.
- Also fulfilled the role of a System Admin, being in charge of deployment and uptime.
- **Tech Stack**: PHP, MySQL, JavaScript

# OPEN SOURCE CONTRIBUTIONS

- **Bookie**
  - Bookie is a python-based bookmark manager available as a web-app , chrome and firefox extensions
  - My Contributions:
    - Improved their search, allowing users to search with different case of tags and wrote tests for the same.
    - Identified and fixed flaws in setting up the development environment.
    - Reported 2 bugs also which are confirmed and fixed.
  - <https://github.com/bookieio/Bookie/commits/develop?author=yashmehrotra>
- **Mozilla**
  - Fixed various bugs to its famous web browser - Firefox
  - Bugzilla Profile: [https://bugzilla.mozilla.org/user\\_profile?user\\_id=525002](https://bugzilla.mozilla.org/user_profile?user_id=525002)
  - <https://github.com/mozilla/gecko-dev/commits/master?author=yashmehrotra>
- **Numpy**
  - Python Library which adds support for large, multi-dimensional arrays and matrices in python, along with a large set of high-level mathematical functions to operate on these arrays.
  - Fixed various bugs in the main library.
  - <https://github.com/numpy/numpy/commits/master?author=yashmehrotra>

# PROJECTS

- **Github Profile for Various Projects:** <https://github.com/yashmehrotra/>
- **Soldier**
  - Created a wrapper for the subprocess library of python.
  - Allows users to perform all system operations and commands with ease.
  - Downloaded more than 5000 times (as of Nov 2015)
  - Available on [pypi.python.org/soldier](http://pypi.python.org/soldier) or can be installed using - **pip install soldier**
- **Garuda**
  - A twitter-clone with all twitter functionality like search tag, follow users, tweet, feed etc.
  - Made in Python(Django) using MySQL DB.
  - <https://github.com/yashmehrotra/garuda>
- **Commit Strip Downloader**
  - Commit Strip is a comic strip website featuring funny web developer related comics.
  - Created a dowloader which can download all comics of the give month.
  - <https://github.com/yashmehrotra/commit-strip-dl>

# REFERENCES

References available upon request.

# INTERESTS

- Football Enthusiast
- Attended PyCon India 2015. Also gave a talk on SQLAlchemy: <https://www.youtube.com/watch?v=rwXyv9YG7Z4>
- Participation in various events such as PyDelhi meet-ups.