Arnav Sharma | Résumé

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Objective

To spend my days designing systems and solving interesting puzzles with talented teammates.

Summary

Able to blend computer science education, software engineering experience, and communication skills to build elegant, reliable, maintainable systems

Education

International Institute of Information Technology, Hyderabad
B. Tech. (Hons) in Computer Science and MS in Computational Linguistics   *2011–2016*
CGPA–7.8

Delhi Public School, Jalandhar
High School Certificate Examination   *2011*
Percentage – 91%

Army Public School, Jalandhar
Senior School Certificate Examination   *2009*
Percentage – 92%

Work Experience

Software Developer

Google Summer of Code - SSF: May'14–August'14

Developed a testing framework - EdenTest - built on Robot Framework for the open source organization Sahana's product *Eden*. The project has reduced the number of bugs per code ratio to almost half and is used exensively in ATDD of Eden. It was mentored by Dominic Koenig.

AidIQ: September'14–Present

I am working on building Continuous Integration solutions for Eden. This involves the following:
- Ability to run Sahana Eden unit tests on GitHub Pull Requests for a specific branch (here).
- Ability to run Sahana Eden functional tests (EdenTest) on a GitHub branch on demand.
- Ability to schedule and run Sahana Eden smoke tests (EdenTest) on a GitHub branch (nightly builds).

Synapz Adaptive Technologies: June–September'13

Worked as a full stack web developer where I developed an *online judge for automatic evaluation codes*. Later, deployed it on *Amazon Web Services*.

Research Assistant

Language Technology Resource Center: May–Sept'13

Engineered the website for **International Conference On NLP-13**.

Teaching & Mentoring

Google Code-In: November–January'13, 14

Appointed as a Google Code-In mentor for *Sahana Software Foundation* where I mentored high school students in their introductory steps in Open Source contribution.

Teaching Assistant :   August–December'13

Appointed as a teaching assistant at IIIT-Hyderabad for:
- Computer Networks under Prof. Shatrunjay Rawat
- ITWS under Dr. Vikram Pudi at IIIT-Hyderabad.

Projects

Analysis of error propagation LTRC Parsing Pipeline..

Mentor: Prof. Dipti Misra Sharma

Description: Analyzing the error propagation in the Parsing Pipeline for Hindi and improving the accuracy of the pipeline by remodeling it.

Twitter entity linking with Wikipedia..

Mentor: Prof. Vasudeva Varma

Description: Built a system which for a given tweet, finds the entities and then using contextual information about these entities, tries to link it with their corresponding Wikipedia page. Link to the video explaining the approach and working.

Urdu to Hindi Transliterater...

Mentor: **Dr. Riyaz Bhatt**

Description: Built a transliterater using tools such as GIZA++ and CRF Classifier which transliterates from Urdu to Hindi. It has an accuracy of 98.4.

Search Engine for Wikipedia...

Mentors: Dr. Vasudeva Varma IIIT-H

Description: Designed a fully functional offline Search Engine for Wikipedia in Python. Implemented the search engine on a 42 GB dump of Wikipedia. Search engine was built from scratch, starting from design to coding without using any helper library functions.

Minor Projects

- **Face recognizer**: As a course project of Statistical Methods of Artificial Intelligence, created a face recognizer by implementing Eigen Faces and using SVM.
- **Bash-like Shell**: A basic shell/terminal to simulate the a subset of the functionality provided by Bash.
- **Compiler for Decaf**: Built a compiler (front end to IR) for Decaf programming language.

Technical Skills

Languages: C, Python, Bash, PHP

OS: *nix

Web: HTML5, CSS, Javascript, Django, Bootstrap, Ruby on Rails, Web2py

Databases: MySQL, SQLite3

Miscellaneous: Git, SVN, Apache, LaTeX, Testing, Scikit-Learn

Achievements

Microsoft Code-Fun-Do: Stood fourth in appathon organized by *Microsoft India Development Center.*

ACM-ICPC Regionals: Qualified for ACM-ICPC Amritapuri Regionals 2013.

AIEEE: Secured *All India Rank of 5195 (99.52 percentile)* in AIEEE 2011.

CBSE AISSCE: Stood *first* in science streams.

National Level Quizzing: Participated in the quizzes such as *Limca Records Quiz.*

Interests

- Quizzing
- Open Source Development

Last updated : February 8, 2015.