Pinkesh Badjatiya

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SKILLS

Technology - python, c, c++, bash, jQuery, javascript, HTML, MySQL, PostgreSQL, angularJS

Frameworks - django, Web2py, Ruby on Rails, Flask

VCS - github, bitbucket

Interests - Networks, Operating Systems, Algorithms, Big Data, Data Science and Visualisations, Systems, Software Design and Development

WORK EXPERIENCE

Public Finance India, Hyderabad - *SSAD Project*

SEPTEMBER 2015 - NOVEMBER 2015 (3 months)

- Develop PoC for organising and handling of budget data of municipals and indexing it from XLS files using django framework.
- Create a GUI version of sqlQuery generator for ease of searching using AngularJS and jQuery.

Public Finance India, Hyderabad - *Winter Intern*

DECEMBER 2015 - JANUARY 2016 (2 months)

- Scale the project to incorporate large amounts of data of 20 municipals and provide an interface for data import directly from XLS to MySQL database.
- Develop security to prevent SQL injections and exploits.
- Deploy the project on AWS using **Apache2** and **WSGI**.

HackIn, Felicity IIITH

OCTOBER 2015

- Problem setter and portal admin of the capture the flag event organised especially for 1st and 2nd year students.

BreakIn CTF, Felicity IIITH

JANUARY 2016

- Problem setter and organiser of the official Capture The Flag event for Felicity Threads.

AWARDS, GRANTS AND HONORS

Sarvochch Chattra Award   **2010**
For scoring the highest percentage in the jain community in city

All India Rank 7044 JEE-Mains (State Rank-258)   **2014**
Among 1.4 million students who appeared for the exam (Stage-1)

All India Rank 3313 JEE-Advance   **2014**
Among 128,000 students who appeared for the exam (Stage-2) from those selected in Stage-1

Microsoft Code.Fun.Do Hackathon Runnerups   **2015**
Amongst the top 4 teams in college to be eligible for finals.
2nd runner ups in IIITH.

PROJECTS

PeerNet - *A P2P application built in c using socket programming .*
- The app was built in **C** using socket programming and **UNIX system calls**.
- Features include sync across directory, SHA256 hashing, TCP/UDP remote file transfer, remote file listing using regex etc.

KernMath - *A minimalist kernel with keyboard support and inline BODMAS calculation.*
- Fork of original mkernel.
- Added keyboard support with inline BODMAS calculation
- Developed in **C** and little bit **x86-assembly-language**.
- Can be loaded with the GRUB bootloader on an x86 system using **QEMU**.

Angry Birds 2D - *A comeback of popular game, Angry Birds.*
- Developed a tweaked version of angry birds game in **OpenGL** using **GLUT** Utility Toolkit.
- The game included proper physics taking into account air resistance and friction.
- Features included various different bird, lightning power, zooming, panning, trajectory prediction and drag-hold-release to fire a bird.

DonkeyKing 2D - *A tweaked version of popular game Donkey Kong.*
- The game was built in **python** using **pygame**.
- The code was written using **OOP** with **Unit Testing** done using **pytest**.
- Features included random fireball generation, lives and multiple levels.

3D Maze - *A simple 3D maze.*
- The game was built in **OpenGL** and **glfw**

- Features included gravity simulation and jump with dynamically changing maze. More features include zooming, panning, first player view, helicopter view, tower view, follow cam, and health of player.

Xv6 Priority based Scheduler- *A scheduler for xv6 operating system based on priority of processes.*
- The idea was to create a priority based scheduler and replace it with current round robin scheduler.
- And a new system call **set_priority()** to change the priority of a processes.

C shell - *A shell built in c using POSIX standards and thread programming for UNIX.*
- A shell in **c** using knowledge of threads, forking, signals, process groups and other **Operating Systems concepts** of system calls.
- Features include piping, file redirection, process job management, foreground/background processes, tracking background processes, signal handling, variable assigning, and builtin commands like cd, pwd, echo etc.

IssueTracker - *A bug tracking system somewhat similar to stackoverflow and bugzilla.*
- Built using **Rails REST Api** and **AngularJs + javascript + Bootstrap** for frontend.
- Features include Realtime Sitewide notification, selective permission of project to users, public/private projects, upvotes, project search using content, tags, user mention in comments, Comment Search, WYSIWYG support, Login/Signup etc.

TeachMe - *An app supporting peer-peer learning.*
- The app was built using for **Microsoft Windows Phone** with **C#** as part of **Microsoft Code.Fun.Do Hackathon**
- The idea of app was to create an online platform where people can find others nearby (using GPS) who are ready to teach them a topic in return for In-App Currency, which can then be used to request another teacher for some other subject.

EDUCATION

St. Mary's Convent Senior Secondary School, Ujjain
High School
CGPA: 9.4

Aklank Public School, Kota, Rajasthan
Higher Secondary School
Percentage: 90%

International Institute of Information and Technology, Hyderabad, Telangana - *alma mater*
Higher Secondary School
CGPA: 8.63