

# SHANTANU GUPTA

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## SKILLS

Python, Django, C  
Octave (Matlab), Flash8,  
Unity C#

## ACHIEVEMENTS

Won 3rd place and a cash prize of Rs40,000 in TCS Game On 2016, national level game design contest (participation from 15000+ teams).

Won 2<sup>nd</sup> prize in National level coding competition at Comfest 2011, Seth AR Jaipuria School, Kanpur (participation from 30+ schools of North India).

Participated and ranked 2<sup>nd</sup> in C-Gambling 2015, the coding event of the BIET (Ranked #1 in written round).

Participated and ranked 67<sup>th</sup> in round 1 of Codevita 2016, a national level coding contest (participation from 5000+ teams from 500+ colleges).

Perfect score in AMCAT Computer Programming Module (National Percentile of 100%) and above 96% percentiles in English, Qualitative, Logical Abilities.

Awarded for outstanding performance in ICSE intermediate examinations with percentage of 95.2% (Best Four Score).

Percentiles of over 97%, 99%, 97% in Verbal, Logical Reasoning and Quantitative of E-litmus Test.

Ranked 9247 in IIT-JEE Advanced 2013 (1.5 lakh pre-screened applicants, percentile > 93%) and 2902 in UPSEE 2013 (among 2 lakh applicants, percentile > 98%).

## EDUCATION

Certificate	Institute	Percentage	Year
B.Tech (Computer Science & Engineering)	BIET, Jhansi (UPTU)	70%	2017*
Intermediate (12 <sup>th</sup> )	Modern School, Lucknow(ISC)	90%	2012
High School (10 <sup>th</sup> )	Modern School, Lucknow(ICSE)	91%	2010

## WORK EXPERIENCE

Project Intern at Gamification-TCS, Gurgaon

Mentor: Mr. Pradeep Mittal Language: C# Platform: Unity3D (Jun 2016-Aug 2016)

- Worked with gamification team and developed POC for Serious and Cultural Games.
- Designed and Developed motion game components for Android and iOS platform.

Intern at Candid Cohort Infosolutions (Work at home)

Mentor: Ms. Bhavya Jindal Language: Django REST framework (Nov 2016-Jan 2017)

- Design and Development of APIs using Django Rest Framework and RAML.
- Preparing Logics/Algorithms and Creating UML/ DFDs for the REST API.

Intern at Edudrona (Work at home)

Mentor: Mr. Rohit Manglik Language: Python, Selenium (Sep 2016-Oct 2016)

- Collaborated with Edudrona Open Source Team to build a Web scrapping project.
- Enriched and repaired broken data by leveraging Google and Facebook APIs.

Intern at TCS, Lucknow (Work at home)

Mentor: Mrs. Swati Bhandari Language: Python, Django, Bootstrap etc. (Jul 2016)

- Developed a dynamic and responsive website to manage attendance and leaves of college faculty and students and deployed the site to Heroku Cloud Application Platform. Github Link: [/gupta-shantanu/CollegeSystem](https://github.com/gupta-shantanu/CollegeSystem)

## PROJECTS

### French Engineer

Cultural game designed while working with gamification team of TCS. Developed in Unity using C# language. Play tested in Android & iOS platforms.

### Image Style Transfer using ConvNets

Final year project based on research paper of the same name. Produces restyled image with content information from one image and artistic style from another image.

### DTMF decoder

Windows Application written in C# that detects DTM frequencies in a telephone conversation by finding Pearson's coefficient of correlation between audio waves.

### Huffman Compressor

CLI application written in Python. Achieves lossless universal compression using Huffman algorithm. Github Link: [/gupta-shantanu/huffman](https://github.com/gupta-shantanu/huffman)

### Data Enrichment Pre-processor

Scrap huge datasets from web and leverage Google maps and auto-complete API to reconstruct/repair broken data before it is fed inside Wordpress Superlist. Github Link (Collaborator): [/rohitmanglik/data-enrichment](https://github.com/rohitmanglik/data-enrichment)

### Mirage

Platformer game written in C# using Unity. Developed as a part of Game On contest and were 2nd runners up among over 10,000 entries. Github Link: [/gupta-shantanu/Mirage](https://github.com/gupta-shantanu/Mirage)

## ACTIVITIES

**Conducted IT Quiz** Helvetika-2k12 for School, coded and designed the interactive quizzing module for the same.

**Position of Technical Lead** in Computer Science Student Council (COSSCO) for the term 2016-17.

**Conducted Codercup-2016** for college forum COSSCO, which involved participants submitting code to a codechef like judge on a local server.

## HOBBIES

Solving competitive coding problems on sites like HackerRank, SPOJ, Interviewbit. [SPOJ](#) (user: [lawliet](#))

Origami, Free Hand sketching etc.

## OTHER WORKS

### Minesweeper

Puzzle game written in *Python* with customizable difficulty levels and grid, Used TKinter bindings to implement GUI.  
*Github Link:* [/gupta-shantanu/minesweeper](#)

### Image Manipulating Neural Net

*Machine learning* algorithm in *Octave* 20x20 neural network for image manipulation using gradient descent.  
*Github Link:* [/gupta-shantanu/ml-imagetraining](#)

### Chrome DINO-BOT

*Python* bot that plays chrome dinosaur Game by analyzing screenshots.  
*Github Link:* [/gupta-shantanu/dumpcode](#)

### Graph Plotter

*Java Applet* that plots graphs for arbitrary mathematical functions.  
Multiple overlapping curves (up to 4) supported.  
*Github Link:* [/gupta-shantanu/dumpcode](#)

### LawProxy

*Django* Application that translates URLs to bypass local ISP censorships.  
*Github Link:* [/gupta-shantanu/proxySite](#)

### Tic Tac Toe A.I.

Single player Tic-Tac-Toe engine written in *Python*.  
Uses AI heuristic search algorithm called min-max search using alpha-beta pruning.  
*Github Link:* [/gupta-shantanu/dumpcode/tic\\_tac\\_toe\\_AI](#)

### Flash Games

*Arkanoid* ([/gupta-shantanu/macrolash-smashit](#))  
*Tower of Hanoi* ([/gupta-shantanu/macrolash-hanoi](#))  
*Pacman* ([/gupta-shantanu/macrolash-pacman](#))  
*Tic Tac Toe* ([/gupta-shantanu/macrolash-tictac](#))

### Quiz Engine

An interactive Quiz module for Schools IT Quiz competition on *Macromedia Flash 8* 6 interactive rounds, dynamic scoring, animations and on the go banner display  
*Github Link:* [/gupta-shantanu/dumpcode](#)

### Web Crawler

This crawler ran on a headless server for weeks, fetching millions of entries from career sites.  
*Github Link:* [/rohitmanglik/scrap\\_careers](#)

### IMDB scrapper

Parses internet movie database and fetches ratings for given movie displays movie poster.  
*Github Link:* [/gupta-shantanu/dumpcode](#)

### pyHoroscope

Contributions to a small open-source project: pyHoroscope ([/tapasweni-pathak/pyhoroscope](#)) a *Flask* based *REST API* to fetch horoscope as JSON. Deployed on Heroku cloud platform.

### Others

*C language* CLI games like [ASCII-snake](#) and [DOS-piano](#), *Visual Basic* 5 apps like guessing game, chess clock timer

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I hereby declare that the above information is accurate to the best of my knowledge.