

KUNAL GUPTA (735IT15)

Senior Year B.E. student
Information Technology
Netaji Subhas Institute Of Technology

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ACADEMIC QUALIFICATIONS

Examination	Year	Board/University	%/CGPA
B.E.(Information Technology)	2015-present	Delhi University (NSIT)	81.49% / 8.89
Class XII <i>Merit Certificate Holder from MHRD minister</i>	2015	Central Board of Secondary Education	95.40 %
Class X <i>A1 in all subjects</i>	2013	Central Board of Secondary Education	10.00 CGPA

INTERNSHIP

Summer Analyst at Goldman Sachs, Bengaluru

(May 2018 – July 2018)

Required Absence for Sensitive Employees – Re Engineering

- Worked on re-engineering the required absence application from scratch. (both frontend and backend)
- Learned and utilised **Angular 5, Dropwizard, Maven, BPMN tools, Groovy, Java, Karma, Jasmine, JUnit, Cucumber** for development of UI, RESTful web services, testing and Workflow design and **GS proprietary programming languages** for Database modelling.
- Was accountable for the whole project, interacted with high level employees like Managing Directors and Vice Presidents overseas.
- Took part in Community Team Works, working in teams to paint the computer science laboratory of a government school
- Learned to use Subversion, got to know about SDLC phases and good coding practices

PROJECTS

• Blind Assistant in OpenCV

(Dec 2017 – Jan 2018)

Supervisor: - Dr Deepika Kukreja

Used **OpenCV in Python** and **MobileNet SSD's** to develop a system that can identify obstacles in the visual field using a phone's camera and relays the information using audio commands via the phone's speaker

• Snapchat like face filters in OpenCV

(May 2017 – June 2017)

Used **Haar Cascade Classifiers in Python** for face detection and developed face filters similar to snapchat

• Space Wars

(April 2017 – May 2017)

Developed fully functional shooter game using **Pygame**, making all the sprites, developing the game logic, and handling the collision system, levels and SFX.

• CG Algorithms

(Jan 2017 – Feb 2017)

Efficient and fast algorithms written in **C** for drawing mathematical shapes like circle, parabola etc., and other Line clipping algorithms etc. (using *winbgim* library)

• Py-Piano

(April 2018 – May 2018)

Virtual Piano in Pygame, supports, multiple keys playback and supports all major octaves of a piano.

• CPU Scheduling Algorithms

(May 2017 – June 2017)

Various CPU scheduling algorithms written in **C++** (FCFS, Pre and Non Pre-emptive etc.)

TECHNICAL SKILLS

- **Programming Languages:** - C/C++, Python, Java, Groovy, MySQL, JavaScript
- **Frameworks / Libraries:** - Numpy, SciKit-Learn, Pandas, TensorFlow, MATLAB, OpenCV, LaTeX
- **Web Development:** - Angular 5, HTML/CSS, RESTful Web Services (Dropwizard)
- **Platforms:** - Windows, Linux/UNIX
- **Game Development:-** Pygame
- **Courses Taken:** - Data Structures, Computer Graphics, Computer Networks, Operating Systems, Databases, Automata Theory, Software Engineering, Engg. Mathematics etc.

ACADEMIC DISTINCTIONS

- Obtained 4057 AIR in **JEE Advanced (2015)** out of 0.4 million candidates
- Obtained 5946 AIR in **JEE Main (2015)** out of 1.3 million candidates
- Won **Silver Medal** in Banasthali Mathematical Olympiad held over Delhi NCR
- All Delhi Rank of **16 in Science Open Merit Test** conducted by **Delhi State Science Teacher's Forum**
- **Level 2** Cleared of IOI

POSITION OF RESPONSIBILITY AND OTHER INTERESTS

- **Head of Administration** at **Axiom – The Philosophical Society of NSIT**
- **Rubik's Cuber**
- **Astronomy**
- **Machine Learning**
- **Guitarist / Painter / Singer**
- **Bagged 15th Rank in Code in Less , in ESYA'15**