

Aniket Pandey

SECOND YEAR UNDERGRADUATE · MATHEMATICS AND SCIENTIFIC COMPUTING

Indian Institute of Technology Kanpur

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Educational Qualifications

Year	Degree	Institution(Board)	CGPA/%
July'16	B.S Maths	Indian Institute of Technology, Kanpur	7.4/10.0
2016	AISSCE – XII	K.V R.K.Puram Sec-2, New Delhi	94.0%
2014	AISSE – X	K.V R.K.Puram Sec-2, New Delhi	10/10

Honors & Awards

COMPETITIVE EXAMS

- 2014 **All India Rank 1**, KVS Junior Mathematics Olympiad, with a record score of **92/100** *KVS, India*
- 2013 **All India Rank 1**, FIITJEE Talent Reward Examination, perfect score of **214/214** *FIITJEE India*
- 2012 **All India Rank 90**, National Talent Search Examination, **NTSE Scholarship** *NCERT, India*
- 2014 **All India Rank 214**, Kishore Vaigyanik Protsahan Yojana, **KVPY Fellowship** *IISc Bangalore*
- 2016 **All India Rank 908**, JEE Advanced, among **200,000** candidates *IIT Guwahati*

OLYMPIADS

- 2013 **Regional Mathematics Olympiad**, Selected for **INMO** from Delhi Region *HBCSE, Mumbai*
- 2013 **Junior Science Olympiad**, Among the top **35** merit students in **INJSO** *HBCSE, Mumbai*
- 2015,16 **Astrophysics Olympiad**, Among the top **25** merit students in **INAO-Sr**, Twice *HBCSE, Mumbai*

Work Experience

Full Stack Web Development

Kanpur, India

PROGRAMMING CLUB

May. 2017 - July. 2017

- Developed a scalable web application for nominations of various posts of Gymkhana, IITK.
- Used Django along with Django-Rest-Framework and PostgreSQL for developing the portal.
- Implemented dynamic heirarchy levels, search feature and multiple model versions in the backend API.
- Designed a Responsive User Interface from scratch using Bootstrap and jQuery.

Senior Web Executive

IIT Kanpur

ANTARAGNI - 17

July'2017 - Oct'2017

- Used the full **MEAN Stack** for a fest webapp and its admin control panel.
- Dynamic website with content easily changeable via the control panel.
- Supported Android App as well with an API.

Projects

Computational Complexity Theory

Kanpur, India

SEMESTER PROJECT, ASSOCIATION COMPUTING ACTIVITIES

IInd Semester

- Reading Project on Theory of Computation. Studied about non-deterministic complexity classes eg. NP, NP-Complete, NP-Hard.
- Researched the fundamental working of **Turing Machine** and its properties. Analyzed famous NP-Complete problems, e.g SAT, Hamiltonian Path, Travelling Salesman etc.
- Understood the implication of Complexity Theory in Quantum Computing and Cryptography.

Graph Theory and Algorithms

Kanpur, India

SEMESTER PROJECT, STAMATICS

IIIrd Semester

- Undergoing Research project on analyzing various Graph algorithms and their Time-Complexities.
- Investigated famous algorithms like Bellman-Ford, Dijkstra and implemented them in solving real-life problems.

Extracurricular Activity

Stamatics, IIT Kanpur

IIT Kanpur, India

SENIOR WEB EXECUTIVE

April, 2017 - Present

- Developed and deployed the responsive website of Stamatics in **Angular** with custom domain *stamatics.org*
- Dockerized the site and maintained the backend with real-time databasing

Programming Club, IIT Kanpur

IIT Kanpur, India

SECRETARY

April, 2017 - Present

- Organized a lecture on Python and Web-Scraping for peer students
- Helped install various distros of Linux in students' laptops during Linux Install Fest
- Prepared recruitment test questions and blogs for Fresher students

Hall captain, Marathas

IIT Kanpur, India

TAKNEEK - 17

August, 2017

- Led the pool to victory in the Inter-hostel technical competition, *Takneek*
- Also won the maiden trophies of Astronomy and Programming

Skills

Research Interests Network & Web Security, Memory Management, Theory of Computation, Algorithms

Programming Python, C/C++, JavaScript, TypeScript, Shell, Java, Haskell

Web Frameworks Django, Express.js with Node.js, Bootstrap, Angular

Utilities Git, Vim, Docker, Linux Shell Utilities, \LaTeX , Mongo-DB, Aircrack-ng, Wireshark

Positions of Responsibility

- Secretary, Programming Club, Astronomy Club & Rubiks Cube Hobby Group, IIT Kanpur
- Senior Executive, Web, Antaragni'17 & Techkriti'18
- Web Executive, Stamatics IIT Kanpur

Relevant Coursework

Data Structures & Algorithms*
Introduction to Programming
Intro to Machine Learning**

*: Ongoing Course

Discrete Mathematics*
Differential Equations
Mathematical Logic*

** : Online Course

Linear Algebra
Introduction to Analysis
Abstract Algebra*

Miscellaneous

- Among the top **6** teams out to give final presentation in SnT Summer Camp
- Cited in The Journal of Open Source Software(JOSS) for contributing to Astropy™
- Maintain a blog (*link*) about Linux, Programming and VCS.
- Among the select freshers to complete PClub's *Getting first PR merged* challenge.