

Aniket Pandey

Second Year Undergraduate • Mathematics and Scientific Computing

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EDUCATION

IIT KANPUR

B.S IN MATHEMATICS AND
SCIENTIFIC COMPUTING
July 2016- 2020 | CPI: 7.4

K.V R.K.PURAM, SEC-2

AISSCE, CBSE, OVERALL: 94.0%
May 2016 | New Delhi, India

K.V R.K.PURAM, SEC-2

AISSE, CBSE: 10 CGPA
May 2014 | New Delhi, India

RELEVANT COURSES

Data Structures and Algorithms (i)
Discrete Mathematics (i)
Introduction to Programming
Intro to Machine Learning (m)
Set Theory & Mathematical Logic
Linear Algebra & Differential Eqns.
Introduction to Analysis
Introduction to Electronics
(i : Ongoing Courses | m : Online Courses)

SKILLS

PROGRAMMING

Python • Javascript • C • C++
CSS • Typescript • Shell

Familiar:

Java • SQL • Haskell

WEB/FRAMEWORKS

Django* • Angular • Bootstrap
Express.js with Node.js
(* : Proficient)

OPERATING SYSTEMS

Linux Mint • Arch Linux • Ubuntu
Kali Linux • Microsoft Windows

UTILITIES

Docker • MongoDB • \LaTeX • Vim
Git • Aircrack-ng • Wireshark
Linux Shell Utilities

INTERESTS

System Administration • Open Source
Web Development • Wireless Security
Python/Shell Scripting • Cryptography

EXPERIENCE AND PROJECTS

GYMKHANA NOMINATION PORTAL | MAY'17 - JULY'17

Summer Project , Programming Club

- 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, django-filter and multiple model versioning in the backend API
- Designed a Responsive User Interface from scratch using Bootstrap and jQuery

SENIOR WEB EXECUTIVE | APRIL'17 - MARCH'18

Stamatics, Departmental Association

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

Antaragni'17 & Techkriti'18

- Used the full MEAN Stack for a fest registration portal, dynamic website and its admin control panel
- Technologies Used - NodeJS, AngularJS, MongoDB, ExpressJS and more

COMPUTATIONAL COMPLEXITY THEORY | 2nd SEMESTER

ACA Semester Project

- 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

AWARDS AND ACHIEVEMENTS

2014	AIR 1	KVS Junior Mathematics Olympiad, with a record score of 92/100
2012	AIR 90	NTSE Scholarship Examination, NCERT & Govt. of India
2014	AIR 214	KVPY-SA Fellowship Examination, IISc Bangalore
2016	AIR 908	JEE Advanced 2016, IIT-Guwahati
2014	INJSO	Amongst the top 36 merit students selected in Junior Science Olympiad
2016	INAO-Sr	Amongst the top 25 merit students selected in Astrophysics Olympiad

MISCELLANEOUS

Secretary, Programming Club

- Organized a lecture on Python and Web-Scraping for peer students
- Helped install various distros of Linux in students' laptops during Linux Install Fest
- Among the select freshers to complete Programming Club's *Getting first PR merged* challenge

Hall Captain, Takneek 2017

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

Hobbies/Citations/PORs

- Secretary of *Programming Club*, *Astronomy Club* & *Rubik's Cube Hobby Group*
- Cited in The Journal of Open Source Software(JOSS) for contributing to *Astropy™*
- Maintain a blog ([link](#)) about Linux, Programming and VCS