

Mayank Sharma

UNDERGRADUATE · COMPUTER SCIENCE AND ENGINEERING

Indian Institute of Technology, Kanpur

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Educational Qualifications

Year	Degree	Institution(Board)	CGPA/%
July'16 – Present	B.Tech, CSE	Indian Institute of Technology, Kanpur	6.7/10.0
2016	AISSE – XII	Central Academy Sr. Sec. School, Chittorgarh	92.0%
2014	CBSE – X	Central Academy Sr. Sec. School, Chittorgarh	10.0/10.0

Academic Achievements

- 2016 **All India Rank 630**, JEE Advanced 2016 among 200 thousand selected candidates.
- 2016 **All India Rank 2237**, JEE Mains 2016 among 1.2 million candidates.
- 2015 **All India Rank 854**, KVPY Fellowship Award awarded by Department of Science and Technology, India.
- 2016 **State Top 1 percentile**, National Standard Examination in Physics
- 2012 **All India Rank 1707**, National Science Talent Search Examination among 3.2+ Lakh applicants.

Projects

Linux from Scratch

ASSOCIATION OF COMPUTING ACTIVITIES

IIT Kanpur

2nd Semester

- Developed a student search in bash which scraped data from Office Automation Portal of IITK.
- Used the ZeromQ library in python to implement client server model (Collatz Conjecture Game).
- Familiarised with Shell Utilities, Linux Architecture, Bootloaders, etc.
- Created a bootable bare-bones linux distro, compiling packages from tarballs building upon the host system kernel and finally compiling the kernel for new distro.

The Automatic Stamper

TA-201 GROUP PROJECT

IIT Kanpur

ongoing

- Worked on a stamper, which if connected to a motor could stamp four times in one revolution.
- Used the Geneva Mechanism and Chain & Sprocket Mechanism to drive the stamper.
- Used the mechanical processes of Casting, Brazing, Welding and Sheet Metal Forming to build it.

Self Projects

- Tour-of-Heroes Web App** : Followed the Tutorial on Angular 2 to create a very-basic web-app.
- YouTube Search Web App** : A YouTube search suggestion app written in Angular 2 using rxJS library with the YouTube API.
- Reddit-like Community App (anonymous posting)** :
 - Made as a part of learning Angular2 for better understanding of interaction of Components and Services.
 - Used Angular2Material and FlexLayout as a responsive material design framework.
- Connected Multiple Login Forms (Facebook, Google, Twitter & Local logins)** :
 - Made as a part of learning passportJS modules and login strategies.
 - Simplistic Front-end written in Angular 2 with Material Design.
 - Back-end written in nodeJS (Express) with MongoDB as Database using Nginx as a reverse proxy server.
- Personal Portfolio Page** : Used an EC2 Instance to host the personal portfolio page. (Link : <http://mayanksha.me>)

Relevant Courses and MOOCs

Introduction to Programming
Abstract Algebra
Mathematics II
i: In progress

Discrete Mathematics (*i*)
Numerical Methods & Approximations
Machine Learning by Andrew NG (Coursera)

Logic in Computer Science (*i*)
Mathematics I (*i*)
CS 229 (ML by Andrew NG) Stanford (*i*)

Positions of Responsibility

- **Senior Executive, Web, Entrepreneurship Cell :** Setup Two forms which posted their responses to an express server hosted on an EC2 Instance.
- **Webmaster, Hall5 :** Redesigned the website from scratch based on its Pool Theme - Mughals.
- **Core Team Member, Vox Populi :** Actively contributed towards writing of articles for the Institute Journalism Body.

Skills

Programming	Javascript and Typescript (<i>Proficient</i>), C, Shell Scripting, Python, MATLAB
Web	Angular2, Express.js with Node.js, MongoDB (Mongoose as ODM)
Utilities & Softwares	Linux shell utilities, Git, \LaTeX , Vim, AutoCAD
Operating Systems	Linux (Arch and Ubuntu), Windows

Interests

- Linux System Administration and Automation
- Web Development
- Image Processing and Computer Vision
- Open Source

Extracurriculars & Hobbies

- Lead an active lifestyle, regularly hitting the gym and lost 20 Kgs weight in the first year.
- Was part of School Basketball Team playing at District Level.