

Indian Institute of Technology, Kanpui

□ (+91) 9461240034 | 🗷 mayank8019@gmail.com | 🌴 msharma.me | 🖸 mayanksha | 🛅 mayanksha

Educational Qualifications

Year	Degree	Institution(Board)	CGPA/%
July'16 – Present	B.Tech, CSE	Indian Institute of Technology, Kanpur	6.53/10.0
2016	AISSCE – XII	Children Sr. Sec. School, Dadabari, Kota	92.0%
2014	CBSE – X	Central Academy Sr. Sec. School, Chittorgarh	10.0/10.0

Academic Achievements

- 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. 2016
- 2015 All India Rank 854, KVPY Fellowship Award awarded by Department of Science and Technology, India.
- 2016 Certificate of Merit, for being in State Top 1-Percent in National Standard Examination in Physics (NSEP).
- 2014 All India Rank 1707, National Science Talent Search Examination among 3.2+ Lakh applicants.

Work Experience

Software Developer Intern, EarlySalary

Pune, India

Summer 2018

PICKUP SYSTEM CASE ALLOCATION AUTOMATION

- · Worked on the backend of a scalable web app, and helped migration from existing PHP based system.
- Implemented centralized Authentication and Authorization, using JumpCloud's Directory-as-a-Service (LDAP).
- · Helped design APIs and Algorithms, to retrieve a new case and automatically assign to a Pickup Agency based upon its priority in a cluster, as soon as a new case is added.
- Developed Microservices for Lambda based REST APIs, and Prevented XSS into the existing MySQL Databases.
- Helped deploy the REST API as AWS Lambda Functions using Claudia.js.
- Techonologies Used: Express.Js with Node.Js, Typescript, Redis (as session store), MySQL, LDAP, AWS Lambda Services

Projects

Course Group Project (TA-202)

IIT Kanpur

CABLE BRAIDING MACHINE, IIT KANPUR

4th Semester

- Worked on a gear-driven Cable Braiding Machine to braid multiple threads simultaneously.
- Used various Mechanical Processes, including Lathe to fabricate the required parts.

The Automatic Stamper IIT Kanpur TA-201 GROUP PROJECT 3rd Semester

- 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.

Relevant Courses and MOOCs.

Data Structures & Algorithms Operating Systems (i) Introduction to Programming Discrete Mathematics Abstract Algebra i: In progress

Intro. to Machine Learning (i) Algorithms 2 (i) Numerical Methods & Approximations Computer Networks (i) Theory Of Computation (i) Logic in Computer Science ML by Andrew NG (Coursera)

Skills.

Programming Javascript and Typescript (*Proficient*), C++, Python, C, Bash Scripting, MATLAB

Web Express.js with Node.js (Fluent), Angular 4, MongoDB (Mongoose as ODM), AWS Lambda & EC2

Databases & Utilities MySQL, Redis, LDAP, Git, LTFX, Vim, AutoCAD **Operating Systems** Linux (Arch, Ubuntu & LFS), Windows

Positions of Responsibility

· Head, Web Development, Entrepreneurship Cell, IIT Kanpur

(April '18 - present)

- Spearheading a team of 10+ Senior Web Developer Executives, effectively distributing development work and collaborating in a Git Organization ♂.
- Developed various websites for E-Cell, including the homepage, and sites for various events, round-the-year.
- Worked on Campus Ambassador and Events Registration Portals, and administered EC2 instances for the same.
- · Webmaster, Hall 5, IIT Kanpur

(November '17 - present)

- Redesigned and Revamped the then webpage of Hall 5 IIT Kanpur.
- · Senior Executive, Entrepreneurship Cell, IIT Kanpur

(April '17 - March '18)

- Collaborated towards development of Past E-Summit website.

Interests ___

- Software Engineering Architectures & Design Patterns
- Backend Web Development & Linux System Administration
- Machine Learning and Data Science

Self Projects_

- Linux From Scratch ☐:
 - 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 to play Collatz Conjecture Game.
 - Familiarised with Shell Utilities, Linux Architecture, Bootloaders, etc.
 - Created a bootable (SysVInit based) bare-bones linux distribution, compiling packages from tarballs, building upon the host system kernel and finally compiling the kernel for new distro.
 - Created Scripts in NodeJS and Javascript to fetch all the BLFS Packages along with their installation commands, storing them as JSON files.

Extracurriculars & Hobbies

- Likes to lead an active lifestyle, regularly hitting the gym and **lost 20 Kgs weight** in the first year.
- Part of School Basketball Team playing at District Level, winning accolades for the team.