

#### 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	6.53/10.0
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**

- 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
- 2014 All India Rank 1707, National Science Talent Search Examination among 3.2+ Lakh applicants.

## Work Experience

#### Software Developer Intern, Early Salary

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 cetralized authentication and authorization, using Jumpcloud's Directory-as- a-Service (LDAP).
- Helped design APIs and algorithm, 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
Introduction to Programming
Abstract Algebra

i: In progress

Intro. to Machine Learning (i)
Algorithms 2
Discrete Mathematics
Numerical Methods & Approximations

Computer Networks (i) Theory Of Computation 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, MEX, Vim, AutoCAD **Operating Systems** Linux (Arch, Ubuntu & LFS), Windows

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# **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.

# **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**

- 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.