

Abhay Chahar

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EDUCATION

- **Indian Institute of Technology(IIT) Patna** Patna, Bihar, India
BTech in Chemical and Biochemical Engineering (CBE) —CPI : 7.51 July 2020 - May 2024 (Expected)
- **AVMD Institute Vill Sawai Etmadpur** Agra, Uttar Pradesh, India
Intermediate (11th and 12th Standard) —Percentage : 81.8 % 2017 - May 2019
- **St.Francis Convent School (UPSIDC Road)** Agra, Uttar Pradesh, India
High School (Upto 10th Standard) —Percentage : 81.7 % 2005 - June 2017

ACCOMPLISHMENTS

- Secured an All India Rank of **10078** in JEE Advanced 2020
- Secured **98.65** percentile in JEE Mains 2020
- Secured **96.99** percentile in JEE Mains 2019 but failed to qualify for JEE Advanced 2019

PROJECTS

- **Chess Engine Using Java Programming Language**
Independent Software Development Project
 - Used a lot of OOPS, and got comfortable with it
 - Understood the taste of how softwares are designed
 - Learned to play basic chess while making the project
- **Molecular Dynamics Simulations for Li-Ion Batteries** Ongoing
B.Tech. Project Under Dr.Atanu Kumar Metya
 - Learned using UNIX based OSs and LAMMPS software fundamentals
 - Simulations are ongoing to calculate properties of ionic liquids and gel polymer electrolytes (Ionic conductivity, diffusivity, density, mean squared displacement, radial distribution functions, etc)

SKILLS

- **Programming/Development Languages :** Java, Python, HTML, CSS, JavaScript, SQL
- **Libraries and Frameworks :** Java FX, Node, React, Express, MongoDB, and Java Standard Libraries
- **Additional Knowledge/ Skills :** Data Structures, Algorithms, OOPS, Database Management, Operating Systems, Computer Networking, and base fundamentals of Machine Learning
- **Chemical Engineering Subjects :** Fluid Mechanics, Heat Transfer, Mass Transfer, Chemical Reaction Engineering, Classical Thermodynamics, Process Control, Transport Phenomenon
- **Mathematics :** Probability and Random Processes, Statistics, Combinatorics, Multivariable Calculus, Linear Algebra

NON ACADEMIC INTERESTS

- Music is Life, and that is an understatement
- Gaming is a fading hobby, hope to bounce back
- Learning in free time on the internet (MITOCW, NPTEL, Youtube)
- Cycling as I enjoy my dates with nature