# Chinmayee Phalak

Third Year Undergraduate

Department of Electrical Engineering

# Academic Qualifications

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Year	Degree/Certificate	Institute	CPI/%	
2019 - Present	B.Tech	Indian Institute of Technology, Kanpur	7.9/10	
2019	HSC(XII)	Shree Pramod Patil Junior College, Nashik	86.15%	
2017	HSC(X)	Adarsh Madhyamik Vidyalaya, Nashik	98.60%	

#### Scholastic Achievements

- Secured **99.61** percentile amongst 300,000 participants in MHT-CET, **2019** conducted by the Maharashtra Govt.
- Secured All India Category Rank 1577 in Joint Entrance Exam (Advanced), 2019 amongst 2,00,000 shortlisted candidates.
- Secured All India Category Rank 3655 in Joint Entrance Exam (Mains), 2019 amongst 1.2 million candidates.

### **Key Projects**

• IITK COIN | Programming Club, IIT Kanpur • Repositary

(May'21 - Jul'21)

- Created a backend pseudo-currency system using **Golang** and **SQLite** as DBMS.
- Built several endpoints for managing user authentication using **JSON Web Tokens**, permissions and transactions.
- Protected each user's password via Salting and Hashing to keep sensitive information cryptographically secure.
- Executed **RESTful API** to increase the flexibility and portability of the application.
- Implemented Mutex locking mechanism, concurrency, deadlock prevention to keep transactions safe and quick.

• FAKE NEWS DETECTOR | Self Project • Repositary

(Jul'21)

- Built a model to classify a piece of news as REAL or FAKE using TfidfVectorizer and PassiveAggresiveClassifier
- Obtained the accuracy score and confusion matrix to check how well the model fares.
- Deployed the model using **fastapi** which allows the user to check whether a news is real or fake
- ALGORITHMS BASED ON MATHS | Stamatics, IIT Kanpur

(May'21 - Jul'21)

- Analysed algorithms such as **hashing**, **Gaussian elemination** that are based on maths and discovered their applications.
- Studied and discussed **Linear Diophantine Equations** and looked for optimal ways to find the solutions explicitly.
- Analysed **FF** (Ford Fulkerson algorithm) and its implementation to multiply polynomials/ n-bit numbers optimally.
- CUBE SOLVER | Speed Cubing Club, IIT Kanpur Repositary

(May'20 - Jul'20)

- Constructed a virtual Rubik's Cube using a software called **Processing 3.5.4**.
- Implemented **Thistlethwaite Algorithm** using the C++ code, for solving the scrambled Rubik's Cube.

#### Work Experience

• REACT DEVELOPER INTERN | Living Desire, Delhi

(May'21 - Jun'21)

- Developed and Implemented **responsive user interface components** by using React concepts.
- Developed and managed **Dashboard for the e-commerce application** and tested it internally for debugging purposes.
- Co-ordinated with the backend developer to integrate API in frontend and produce well tested and high quality code.
- Worked with UX/UI design team to improve visible design of the application.

#### Technical Skills

- Languages/Frameworks: C/C++, JavaScript, React.js, Node.js, Express.js, python, JQuery, Bootstrap, HTML5, CSS
- Software/Other Utilities: Processing 3.5.4, MS Office, AutoCAD, MATLAB, IATEX
- Databases: MySQL, SQLite. MongoDB, Mongoose

## Positions of Responsibility

(Oct'20 - Jun'21)

- Provided **emotional and academic assistance** to 5 first year students in acclimatizing to the institute's environment.
- Served as the first point of contact in the online semester for the students and their parents.
- Assisted Counselling Service in organizing the 1st Online freshers' Orientation programme for 1000+ students.
- SECRETARY | Speed cubing Club, IIT Kanpur

(May'20 - Jun'21)

- Documented and presented the Club's summer project in front of the Science and Technology council, IIT Kanpur.
- Helped Coordinators in presenting the club in the orientation programme for freshers.
- SECRETARY | Dance Club, IIT Kanpur

(May'20 - Jun'21)

- Assisted coordinators in the management of various workshops and events with the professional dancers.
- Conducted a weeklong online dance workshop series for 25 freshers.

Relevant Courses	*online courses	
Probability and Statistics Real Analysis and Multivariable Calculus	Fundamental of Computing Python for Everybody*	Complex Analysis Partial Differential Equations

#### Extra-Curricular Activities

- Attended 2nd Junior Mathematician Course conducted in Sri Prakash Synergy School, Peddapuram, Andhra Pradesh.
- Participated in Robotricks event in Takneek 2019 and structured a virtual model of robot using AutoCAD.
- Participated in Wild Soccer event in Takneek 2019 and worked on mechanical structure of robot.