

KARTIKEY TEWARI

L-405, Amrapali Silicon City, Sector-76, Noida, Uttar Pradesh, India

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🔗 [kartikeytewari.codes](#) 📁 [Kartikey Tewari](#) Codechef: [kartikey30](#) Codeforces: [kartikey30](#)

EDUCATION

National Institute of Technology, Hamirpur

August 2017 – May 2022

Masters of Technology in Computer Science and Engineering

CGPA: 8.83

Bachelors of Technology in Computer Science and Engineering

CGPA: 8.15

Completed Bootcamps on Udemy in [MySQL](#), [MEN Stack](#), [Git](#) and [Github](#)

Delhi Public School, Vidyut Nagar

May 2015 – May 2017

Class-12 CBSE Examinations

92.8%

Class-10 CBSE Examinations

CGPA: 10.00

EXPERIENCE

Source.One

May 2021 – August 2021

Software Developer Intern

Pune, India

- As part of back-end team, developed a Data Analytic Website from scratch for determining real time bottle-necks in logistics.
- Created **Python** scripts that mined data stored in AWS Glaciers, and generated logs based on them.
- Designed REST APIs using **Node**, to provide the mined data for use in analytic stack.

FAH Technologies

August 2020 – September 2020

SDE Intern

Singapore (Remote-India)

- Increased response time of **Node** authentication API by 23% by restructuring the Data Architecture.
- Documented the **REST** APIs on Swagger notebooks using Open-API3 Format.

NIT Hamirpur

May 2020 – July 2020

Research Intern

Himachal Pradesh, India

- Designed a new tree based [Data Structure and the algorithms](#) to build and perform range-based queries on it.
- Implemented the proposed Data Structure and contemporary methods using **C++** to determine the experimental efficiency.
- Reduced Time complexity for operations by 900% while reducing space complexity by 25% for storing data.
- Authored a [research paper on the tree](#), that is published by IJIT, Springer Publications a SCOPUS Indexed Journal.

PROJECTS

NLP Machine Learning Model for Text Summarisation

- Made a NLP Machine Learning model using **Python** to generate text summaries of a group of documents.
- The summaries generated had contextual meaning unlike single-document text summaries.

Fingerprint Authentication System [[Github](#)]

- Built a fingerprint-based authentication system from scratch using **C++** and **Python** scripts.
- Improved Data retrieval time by 20% compared to contemporary methods by using Wavelet tree for indexing.
- Authored a research paper on the authentication system that is under publication.

Yelpcamp [[Github](#)] [[Website](#)]

- Developed a website using **Javascript** where users can share there reviews of different campgrounds.
- Implemented functionalities such as user profiles and editing/deleting of comments.
- Used **Node** and **ExpressJS** for developing the back-end, and **MongoDB** for database management.

ACHIEVEMENTS

Scholarships

- 2021: Cleared GATE Scholarship by securing top 2.3% marks nationally.
- 2017: Secured 100/100 marks in CBSE Class-12 Mathematics Examination, and got recognition by MOE, GOI.
- 2015: Selected as one of top 857 students among 14,00,000 candidates, for receiving the prestigious NTSE Scholarship provided by Government of India (GOI).

Programming Contests

- Codechef: [handle: [kartikey30](#)] Maximum rating: 1927 (4-star) Ranked in top 2.4% of all users on the website.
- Ranked [94th](#) out of 5465 participants that competed in the Cook-off November 2020 contest.
- Ranked [120th](#) out of 3284 participants that competed in the Cook-off September 2021 contest.
- Codeforces: [handle: [kartikey30](#)] Maximum rating: 1601 (expert) Ranked in top 3.2% of all users on the website.
- Cleared Qualification round and advanced to Round-1 of Codejam 2021. Ranked [3996th](#) out of total 93,000 participants.

CO-CURRICULAR SKILLS

GLUG: Have been an active member of GLUG (GNU-Linux User's Group), and have conducted many workshops on Linux Tools.

TECHNICAL SKILLS

Languages: C, C++, Python, SQL, Bash, HTML, CSS and Javascript

Technologies/Frameworks: Linux, Git, GitHub, AWS, MySQL, MongoDB, Bootstrap and ExpressJS