

Kartikey Tewari

COMPUTER SCIENCE AND ENGINEERING STUDENT

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Education

National Institute of Technology (NIT), Hamirpur

Himachal Pradesh, India

B.TECH AND M.TECH (DUAL DEGREE) IN COMPUTER SCIENCE AND ENGINEERING (CSE) (B.TECH: 8.15, M.TECH: 8.83)

August 2017 - May 2022

- Courses: Data Structures, Algorithms, Operating System, Software Design, Computer Networking and Distributed Computing.
- Completed Udemy Bootcamps in MEN Stack, MySQL, Git and Github.

Delhi Public School, Vidyut Nagar

Uttar Pradesh, India

HIGH SCHOOL AND INTERMEDIATE EXAMINATION

May 2015 - May 2017

- Secured 92.8% in Class-12 CBSE Examinations.
- Secured 10 CGPA in Class-10 CBSE Examinations.

Honors & Awards

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| 2021 | Published a research paper on TBIT in International Journal of Information Technology. | Springer |
| 2021 | Expert at Codeforces with highest rating of 1601 (top 0.07% in India). (@kartikey30) | Codeforces |
| 2021 | Four Star at Codechef with highest rating of 1874 (top 0.06% Internationally). (@kartikey30) | Codechef |
| 2017 | Secured 100/100 marks in Mathematics Intermediate Examinations conducted by CBSE. | GOI, India |
| 2015 | NTSE Scholar, awarded by the Ministry of Education, India. | GOI, India |

Work Experience

Source.One

Pune, India

SDE INTERN

May 2021 - July 2021

- Programmed a Data Analytics website that processed all orders to the company, and determined bottle-necks in production-flow in real time.
- This allowed the team to improve the efficiency of the flow by 8% compared to previous weeks.
- The website also predicted future order trends based on historical orders, enabling the Business team to make key decisions.
- Collaborated with a dynamic team of engineers and Operation managers to understand the key requirements of the website.

FAH Technologies

Remote (Singapore)

SOFTWARE ENGINEER INTERN

August 2020 - September 2020

- Wrote REST API for user on-boarding, scalable to over 15,000 requests per second.
- Designed and documented the API on Swagger notebooks using Open-API3 Format.

NIT Hamirpur

Himachal Pradesh, India

RESEARCH INTERN

May 2020 - July 2020

- Designed a new tree based [Data Structure and the algorithms](#) to build and perform queries on it.
- The tree can handle all types of range-based queries for transitive functions while providing scalable solutions.
- Reduced Time complexity for query operations by more than 900% while reducing space complexity by 25% for storing data.
- Authored a [research paper on the tree](#), that is published by the International Journal of Information Technology (IJIT), Springer Publications a SCOPUS Indexed Journal.

Projects

Fingerprint Authentication System

Data Indexing

C++, C, PYTHON, BASH SCRIPT, LATEX AND GIT

January 2021

- Built a [fingerprint-based authentication system](#) from scratch using wavelet tree for indexing.
- Improved Data retrieval time by 80% compared to hashing.
- Authored a research paper on the authentication system that is under publication.

Yelpcamp

Full-Stack Website

HTML, CSS, BOOTSTRAP, NODEJS, EXPRESSJS, MONGO, GIT AND HEROKU

May 2020

- Made a [clone of Yelp](#), as a website of reviews of different campgrounds.
- Deployed the code on Heroku, while hosting database on MongoDB Atlas cluster.