

Kartikey Tewari

COMPUTER SCIENCE AND ENGINEERING STUDENT

L-405, Amrapali Silicon City, Sector-76, NOIDA, UP, India

☎ (+91)9871607123 | ✉ kartikeya30@gmail.com | 🏠 kartikeytewari.github.io/ | 📷 kartikeytewari | 🌐 kartikey-tewari | 📺 kartikey30 | 📧 Kartikey Tewari

Education

National Institute of Technology (NIT), Hamirpur

Himachal Pradesh, India

B.TECH AND M.TECH (DUAL DEGREE) IN COMPUTER SCIENCE AND ENGINEERING (CGPA 8.83)

August 2017 - May 2022

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

Honors & Awards

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|------|---|------------|
| 2021 | Published 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 | GOI, India |

Work Experience

Source.One

Pune, India

SDE INTERN

May 2021 - Present

- Designing a Data Analytic Website as an internal tool using MEN (mongo-express-node) tech stack.
- Coordinating with the Business Team to understand the use case of Data analytic portal.
- Working in a team of 5 engineers using test-driven development.

FAH Technologies

Remote, Singapore

SOFTWARE ENGINEER INTERN

August 2020 - September 2020

- Designed 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.
- Configured Backend on Docker container.

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 an [authentication system](#) from scratch using wavelet tree for indexing.
- The authentication system is based around fingerprints rather than passwords, making it inherently secure.
- 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.
- Implemented user-authorization and back-end API, having full CRUD functionality.
- Deployed the code on Heroku, while hosting database on MongoDB Atlas cluster.

Color Ninja

Frontend Webapp

HTML, CSS, BOOTSTRAP, JAVASCRIPT AND GIT

May 2020

- Made a [gaming app](#) using HTML and CSS.
- The app provides the user with three percentages of red, green and blue color.
- User then have to determines the color that will form after mixing the three colors, from a given palette of colors.