



# KARTIK TYAGI

4<sup>th</sup> year Architecture Student

Indian Institute of Technology Kharagpur



## ABOUT

I am curious about emerging technologies and intrigued by the design of things around me and how it affects the human behaviour. I use a blend of code and design to make digital products and data visualizations.

## EDUCATION

**Indian Institute of Technology Kharagpur**

*Bachelor of Architecture (Hons.)*

CGPA 8.00 (Expected 2021)

**Higher Secondary Certificate**

*Central Board of Secondary Education*

Percentage 88.8

**Secondary School Certificate**

*Central Board of Secondary Education*

CGPA 10.00

## CONTACT



[tkartik.com](http://tkartik.com)



[github.com/tkartik](https://github.com/tkartik)



[tyagik.iitkgp@gmail.com](mailto:tyagik.iitkgp@gmail.com)



+91 - 7478054777



C319, Patel Hall, IIT Kharagpur,  
721302, West Bengal, India

## SKILLS

[WEB DEVELOPMENT]

HTML, CSS, JavaScript, React.js

[PROGRAMMING]

C, C++, Python, Processing

[DESIGN]

Adobe Creative Suite

[3-D MODELLING]

Sketchup, Rhino, Revit, Grasshopper

## ACHIEVEMENTS & AWARDS

- Won Gold in Main Design-1 in Zonal NASA Convention 2018 held in Cuttack, India
- Won Silver in CortoKino, international short film festival for the movie 'La Jest'
- Project 'Lymap' got featured in the 'Kantar's Information is Beautiful' Awards 2018

## RELEVANT EXPERIENCE

**Deptt of Architecture, IIT Roorkee | Research intern**

*User Experience of spatial navigation | May - July 2019*

- Designed 3 path layout models for urban planning: Radial, grid-iron, and organic
- Conducted virtual simulations for 85 users to study real time eye-tracking data
- Built a Javascript-based visualization platform to display cognitive load for users
- Analysed and identified the path offering the least cognitive load to the users

**IIT Tech Ambit | Product Design Lead**

*Led digital product design for the non-profit | 2018 - Present*

- IIT Tech Ambit is a media body for the publicity of research, business and tech innovations of the Pan IIT ecosystem and beyond, funded by SRIC, IIT Kharagpur
- Designed the digital magazine covers and layouts; sent to 3,000+ readers
- Designed the UX/UI of the website and collaborated with the tech team to deploy it
- Conceptualized and designed a new weekly email newsletter for 5,000+ subscribers

## SELF PROJECTS

**LifeCal** (2019 | [Link](#))

Built a Chrome Extension in React.js which aims to bring one's whole life into perspective by visualizing the total number of weeks in their life.

**Terrat, Visualizing Terrorism in India** (2018 | [Link](#))

Processed and Visualized terrorism data of last 38 years in India through an interactive Map using JavaScript and Mapbox API.

**Lymap, Visualizing and Mapping your text** (2018 | [Link](#))

Created an interactive webpage which turns any text input into a string of 2-D vectors and plot them on screen in real-time using JavaScript and Processing Library. Each output resulted in unique visual pattern acting as a digital signature for the text.

## LEADERSHIP ROLES

**Governor**

*English Technology Dramatics Society, IIT Kharagpur | 2018 - 2019*

- Spearheaded a one-month intensive Dramatics workshop for 25+ freshers selected from auditions of 450+ freshmen while managing a society of 70+ active members
- Managed a budget of INR 2 lakhs for logistics and execution of year round activities
- Directed 8+ stage plays & a street play; Newly introduced improv comedy workshops
- Started a script writing wing in the society to encourage more original productions

**Mentor**

*Design++ Group, IIT Kharagpur | 2017 - 2018*

- Conducted and mentored 50+ juniors through a series of programming workshops
- Introduced creative coding to novice designers through week long p5.js workshops

## EXTRA ACADEMIC ACTIVITIES

- Represented IIT Kharagpur at Inter IIT Cultural Meet 2017 and 2018 in Dramatics
- Won Gold in English Dramatics in Social and Cultural General Championship 2018
- Directed Silver winning Street Play in Social and Cultural General Championship 2019
- Made 2 shortfilms and acted in 3 shortfilms as a part of TFPS, IIT Kharagpur