

# Karan Agarwal

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*"I am a Full-Stack JavaScript developer who loves to build apps while paying great attention to performance, scalability, design pattern and maintainability."*

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## Education

- 2015–2019 **B.Tech**, *The LNM Institute of Information Technology*, Jaipur, CGPA – 8.85.  
Computer Science and Engineering
- 2013–2015 **XII**, *St. Xaviers Sr. Sec. School*, Jaipur, Agg – 87.20.
- 2008–2013 **X**, *St. Xaviers Sr. Sec. School*, Jaipur, CGPA – 9.6.

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## Projects

- 2018 **Fitnet**, *Github Repo*.  
Sports are one of the best ways to keep people healthy. But, there are barriers in playing sports such as finding people with the same skill level and a venue. The project deals with this problem by letting users find co-players with the same skill level and a venue.
- 2018 **IOT Based Smart Lighting System for Hostels**, *Github Repo*.  
Electricity wastage is a major issue in public places such as hostels. Lack of accountability is one of the major reasons for it. We have implemented a system which detects ambient light and presence( by motion and sound) to determine when to switch on and off the lights. The Data is stored and visualised in cloud.
- 2017 **Helping Hands**, *Github Repo*.  
Helping Hands provides a platform to all the social organisations who want to reach out to the public to present their work and to people who want to volunteer for a social cause.
- 2017 **Plinth Teaser**, *Github Repo*.  
I was the Engineering Team Lead of the team developing the teaser for Plinth, The Techno-Management Literary Fest of our college. As a part of the project, we worked with animation frame, custom SVG paths and Anime.js.
- 2017 **Dev Hunt**, *Github Repo*.  
Dev Hunt is a Profile Management solution for developers. Here the developers can log in and provide their details and recruiters can search for them by applying suitable filters.
- 2017 **Twitter Live Data Visualization**, *Github Repo*.  
The project uses Data Visualizations to create a world-map and the Twitter Streaming API to fetch tweets with their location. It then plots the tweets on the map according to their co-ordinates and the number of followers the user has.
- 2016 **Responsive Website**, *Github Repo*.  
I made a landing page for an imaginary food delivery start up named Omnifood and learn some aspects of good designing along the way. This is a fully responsive website with which I learned the concepts of flat-UI designing, typography, color schemes, etc.
- 2016 **Comparison of Algorithms**, *Github Repo*.  
The efficiency of five algorithms was tested on a randomly generated data set. The number of comparisons required by each algorithm was counted against the size of the input array. Then a graph was plotted using GNU-Plot and Okular. Also, report and presentation were made using Latex.

## Experience

- 2017 **Backend Developer Intern**, *VStv.io*.  
Joined VStv as a Backend Developer Intern
- 2017 **Sub Coordinator**, *Cybroz*.  
Computer Science Club at The LNM Institute of Information Technology
- 2017 **Teaching Assistant**, *The LNM Institute of Information Technology*.  
Teaching Assistant for the Advanced Programming (Object Oriented Programming using Java) Course.
- 2016 **Open Source Developer**, *Mozilla Reps*.  
The Mozilla Reps program aims to empower and support volunteer Mozillians who want to become official representatives of Mozilla in their region/locale. I contributed to the front-end of the platform.
- 2016 **Teaching Assistant**, *The LNM Institute of Information Technology*.  
Teaching Assistant for the Computer Programming course.

## Technical Skills

Languages	JavaScript (ES6), C
Designing	HTML, CSS
Frontend	React.Js, Redux
Backend	Node.Js, Express.Js, MongoDB, Server Side React (Isomorphic/Universal)
Libraries	D3.Js (for Data-Visualizations), Sockets.io (for web-sockets), Cheerio.Js (for Web-Scraping)
Tools	Gulp, Git
Platforms	Linux, Mac
Logging	Elastic Search, Logstash, Kibana (ELK)
Cloud	Google Cloud Platform (GCP), Digital Ocean, Heroku, IBM Bluemix

## Awards and Achievements

### Merit.

Scored a CPI 9.80 in core CSE subjects.

### NTSE Scholarship.

Selected in National Talent Search Examination (NTSE) and rewarded with the NTSE Scholarship.

### Gold Medalist.

Selected in Technothon (twice in a row securing AIR 28 and 35 in the years 2012 and 2013 respectively) conducted by IIT Guwahati and attended Techniche (The Annual Techno-Management Festival of IIT Guwahati) for the same.

### Runner Up.

Team member of Dougeldyne Astrosystems and Flechtel Constructors which participated in the 10th Annual Asian Regional Space Settlement Design Contest and bagged Runners-up position.

### Honorable Mention.

Team Member of Team Empyrean and Team The Ether Explorer, both of which made projects for the Space Settlement Design Contest held by NASA Ames Research Center and bagged Honorable Mention from the same.