

Akash Raj

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Education

Guru Gobind Singh Indraprastha University, *Bachelors in Computer science & Engineering*
Aug 2016 – Jul 2020

Experience

Trelos, *FullStack Intern*

Jul 2019 – Nov 2019

- Developed 4 important modules for online learning platform in PHP and JQuery.
- Developed website for partner Universities and Schools.
- Managed Database and server.
- Developed a custom data collection and analytics application for an NGO all by myself.

Defense Research and Development Organization, *Machine Learning Project Trainee*

Jun 2019 – Aug 2019

- Learned and explored many machine learning techniques under great mentorship.
- Successfully managed to deliver a project(Deep-Dance) on machine learning applying all the skills learned during training.

GuideVilla, *Web Developer Intern*

Jun 2018 – Aug 2018

- Designed and Developed the front end design of a platform focused for travel guides.
- Designed the website from scratch without using any framework.

Projects

GitStats (<https://gitstats.me>), *Open-source Github Contribution analyzer* 📄

Apr 2020 – present

- This tool summarizes any GitHub profile and highlights some statistics about user, user's code and user's habits.
- Tech stack: Reactjs, Express, Redis, GraphQL.
- 3k+ page views within 2 days of launch.

COVID 19 Dashboard (<https://akashraj.tech/corona/interactive>) 📄

Apr 2020

- Covid 19 interactive dashboard with Map.
- Tech Stack: React and AmCharts

Information Universe (<https://information-universe.herokuapp.com>) 📄

Sep 2019

- A web app that represents information in easy to digest format.
- Information is scraped directly from Wikipedia using custom a script written in Node.js.
- Tech stack Node.js, Express, REST API

Collaborative Drawing (<https://col-draw.herokuapp.com>) 📄

Feb 2019

- A web application where multiple people can use a shared canvas to draw and have fun.
Inspiration (skribbl.io 📄)
- Extra features: Live chat using sockets
- Developed using Node.js, Socket.io, p5.js and HTML/CSS.

Image2Audio (<https://github.com/akashraj9828/image2sound>), *Audio to image Steganography* 📄

Dec 2018

- Java program that converts an Image into Audio.
- Image can be seen in audio's spectrogram
- Use case: Steganography, Security and Communication

Skills

Programming (Python, Node.js, JavaScript, PHP, SQL, C++, Java, C#, OOP)

Machine learning (Python with NumPy, Pandas and Keras)

Statistical Analysis (PHP, ApexCharts, Excel Spreadsheet, Google Data studio)

Version Control (Git, GitHub, Bitbucket)

Front end (React, Node.js, HTML, CSS, SCSS, JQuery)

Cloud (AWS, Heroku)

OS (Linux, Windows)

Publications

Deep Dance
(Showcasing the capabilities of RNN and CNN on a video dataset)

Awards

Top 5 in Internal College Hackathon,
Ministry of Human Resource Development

Maths Olympiad
Won 2nd place in International Maths Olympiad School level

Open Source Contribution

P5.js

Interests

Web Development

Machine learning/AI

Data Analytics

Game Development

Network Security