

Divyanshu Tiwari

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EDUCATION

Indian Institute of Technology Roorkee, India
Bachelor of Architecture

2017 - 2022
CGPA: 7.2/10

TOOLS

Frontend	HTML, CSS, Javascript, Typescript, React, NextJS, Tailwind CSS, d3.js, p5.js
Backend	NodeJS, Express, Python
Tools	npm, Postman, Git

PROFESSIONAL EXPERIENCE

Chronicle [\[Article\]](#)
Full Stack Developer

Feb 2022 - June 2023

- Developed the "Image Picker" feature, enabling users to seamlessly add stock images to slides.
- Closely collaborated with Designer to implement icon and video blocks, from conception to completion.
- Enhanced the user experience by refining the forward slash and contextual menus, essential tools for adding blocks to slides, while also assisting senior engineers in addressing critical product bugs.

Razorpay [\[Article\]](#) [\[Wireframes\]](#)
Full-Stack Designer

May 2019 - July 2019

- Worked on the design and development of an interactive section for the company's website. It helped their customers (mainly other businesses) in understanding their needs and recommended product solutions accordingly.

RESEARCH EXPERIENCE

Creativity Lab [\[Code\]](#)
UC San Diego

June 2021 - Present
Prof. Haijun Xia

- Worked under the guidance of Prof. Haijun Xia on the development of a declarative JSON grammar through which one could create customized array animations to illustrate a range of data transformations on arrays.

Memory Anxiety Research Group [\[Article\]](#)
IIT Roorkee

Nov 2020 - April 2021
Prof. Manish Kumar Asthana

- Responsible for developing a number of interactive virtual environments on Unity and Vizard 7. These were used to collect behavioural data of users by testing their performance on particular tasks.
- Developed visualizations for participant's behavioural data thus collected to help my supervisor gain insights into their behaviour.

Net Zed Lab [\[Article\]](#) [\[Code\]](#)
IIT Roorkee

Nov 2018 - Dec 2018
Prof. Elangovan Rajasekar

- Built a prototype that automated the functioning of an AC remote controller. It helped in maintaining the AC at a temperature optimised for human comfort and energy efficiency.

PUBLICATIONS

- [P.1] Abhishek Rathod, Ajay N, Aman Jaiswal, Divyanshu Tiwari, Surya Prakash G. **Coodle: A Low-Cost Tangible Programming System for Kids from Low-Income Households in India.** *Presented at the 12th Indian Conference on Human-Computer Interaction (IndiaHCI '21)* [Paper]
- [E.1] Divyanshu Tiwari. **Fostering Collaboration and Empathy Through Games.** *Extended Abstracts of the 2020 Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 20 EA).* [Paper]

[P.x] = Poster, [E.x] = Extended Abstract, [F.x] = Full Paper

SELF PROJECTS

Coodle [Article] [Code]

February 2020 - August 2020

- Built a tangible programming environment in a team of 5 that made use of physical cardboard blocks to write programs. The project aimed to provide rural children with an accessible tool to learn programming.
- Responsible for designing the cards, and the language syntax; and for developing the Coodle parser, and the front-end interface of the web application.

Flappy Rockets [Article] [Code]

May 2018 - June 2018

- Built a single-player game that made use of a miniature physical spacecraft to be used as its controller.
- To gain points you are required to dodge incoming asteroids on the screen by moving the physical spacecraft up and down.

ACHIEVEMENTS

- 2021** Awarded **Professional Development and Innovation Award** for our work on **Coodle**, given to senior undergraduate students for innovative capstone engineering projects.
- 2021** Received full scholarship of \$800 to join the **Experiments in AI-Generated Media**, an online course organized by **MIT Media Lab**.
- 2021** Invited to **KU Leuven** as a **visiting scholar** at the E-Media Lab.
- 2020** National finalists in **Innovate for an Accessible India Challenge** organised by NASSCOM Foundation and Microsoft India. Selected among the top 50 finalists nationwide out of 3400 applications.
- 2020** Finalist in **CHI PLAY 2020 Student Game Design Competition**.
- 2020** Selected for **MIT India Initiative**, a joint workshop by MIT and Harvard on Design, Technology and Social Innovation. I was among the 300 participants who were chosen nationwide out of the received 5000 applications.
- 2020** National finalists in **Smart India Hackathon 2020**, which is a nationwide college level hackathon organised by the Government of India.
- 2018** National Winner of the **DesTech Challenge 2018** organized by NASA India with a total of 200 participants.
- 2018** Winner of **Syntax Error**, an intra-college hackathon organized by SDS Labs at IIT Roorkee