

# Vedant Ghonge

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## SKILLS

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**Programming languages:** C++, C, Python, Javascript, Typescript  
**Web Development:** HTML, CSS, React, Node.js, Next.js, Three.js  
**Databases:** SQL, MongoDB, Neo4j

## PROJECTS

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### Collab Craft

Full Stack Application

Dec 2023 - Jan 2024

[git.io/collab-craft](https://git.io/collab-craft)

- Developed a Notion clone with real-time communication for seamless collaboration in shared workspaces.
- Implemented an intuitive file and folder organization system within workspaces.
- Personalization of each document using banners, emojis etc.
- **Technologies:** Typescript, Next.js, Node.js, Socket.io, Supabase.
- **Demo:** [Collab Craft](#)

### Leaf Notes

Full Stack Application

Aug 2023 - Oct 2023

[git.io/leaf-notes](https://git.io/leaf-notes)

- Developed a Google Docs-like application with a rich-text editor (WYSIWYG).
- Featuring real-time collaboration, live updates across multiple instances and session management using JWT.
- Implemented an optimized real-time collaboration feature that selectively propagates changes within documents across multiple instances and users.
- **Technologies:** Typescript, React, Express, Socket.io, MongoDB
- **Demo:** [Leaf Notes](#)

### R3F-Points-FX

NPM Package

Oct 2023 - Nov 2023

[npmjs.com/R3FPointsFX](https://npmjs.com/R3FPointsFX)

- Easily render particles scenes by passing the geometry of meshes as input, allowing for flexible and creative arrangements.
- This package leverages GPU processing through a **custom shader** to handle particle arrangement, enabling the rendering of large quantities of particles without performance degradation.
- Seamless transitions between two arrangements are supported, offering dynamic visual effects.
- **Technologies:** Typescript, React Three Fiber

### Parsec 2024

Event Website, IIT Dharwad

Aug 2023 - Nov 2023

[git.io/parsec2024](https://git.io/parsec2024)

- Crafted the frontend for our flagship event, Parsec and transformed it into an exceptional user experience.
- Seamlessly integrated intricate particle arrangements that transition dynamically as visitors scroll through the website, providing an immersive journey and blends with the overall space inspired theme of the event.
- **Technologies:** React, React Three Fiber
- **Website:** [Parsec 2024](#)

### Certy

Backend Project

Apr 2022 - May 2022

[git.io/certy](https://git.io/certy)

- An API for easily generating, storing and validating certificates.
- Easily generate certificates for given template from excel, csv or google sheet link.
- **Technologies:** Nodejs, Python

### Other Projects

- **Summer of Innovation 2023** 📄 : Website for the event, Summer of Innovation-2023.
- **Portfolio** 📄 : Interactive website built with Three.js showcasing my skills.

## EXPERIENCE

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### Polymath AI

Front-End Intern

Jan 2024 - current

Remote

- Building front end for the set of tools offered by Polymath AI.
- Optimising web applications for maximum performance, compatibility and responsiveness across various platforms and devices.
- Debugging and troubleshooting issues to ensure optimal performance and user experience.

## RELEVANT COURSEWORK

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- Data Structures and Algorithms
- Design and analysis of Algorithms
- Database Management and Information Systems
- Software Systems Lab

## EDUCATION

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**Indian Institute of Technology Dharwad, Karnataka, India**

Bachelors of Technology in Mechanical Engineering

Minors in Computer Science

Dec 2020 - Apr 2024

GPA: 8.67/10.0