

Pratham Narwade

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EDUCATION

Indian Institute of Technology Kharagpur

2019 - 2024

Industrial and Systems Engineering

7.58 / 10

N.E.S. Science College

2017 - 2019

Maharashtra Higher Secondary Certificate Examination

76 / 100

WORK EXPERIENCE

Zenop | Full Software Development Internship

May 2023 - July 2023

- Worked on frontend of the website utilizing **React.js**, **Tailwind css** and Javascript for styling for smooth interface
- Worked on routing, cookies, gensalt in **Express**, designed **MongoDB schema** and applied the **CRUD** operations
- Created multiple routes and inter-connected the various application pages and built a user oriented app
- Implemented token based authentication with **JSON web tokens** (JWT) to secure communication between routes
- Participated in daily scrum meetings and collaborated with the technical team to enhance the functionalities

PROJECTS

Quickchat | Real-time chat application

Feb'23 - Mar'23

- Led end-to-end development of a robust real-time chat application integrating the **MERN** stack
- Developed the user-friendly UI utilizing **Reactjs**, **Material-UI** components and icons to enhance user experience
- Designed and developed API for real-time chat web app using Node.js with Express and MongoDB as database
- Implemented WebSocket for instant messaging capability, realtime functionality and to enhance user experience

Optimization Model for Bank Loan Lending Decision

Jan'22 - Apr'22

- Developed a Meta-Heuristic model to maximize the banks profit by optimizing lending decisions in credit crunch
- Formulated the problem based on the **binary decision** for each loan applicant by considering various parameters
- Engineered **Genetic Algorithm** and **Particle Swarm Optimization** approach to solve the Loan Lending problem
- Found genetic algorithms to converge at **0.00498s** and the particle swarm optimization to converge at **0.005984s**

CoviTrack | Covid 19 Tracker

Dec'21 - Jan'22

- Developed a web application that display current status of covid cases, recoveries and deaths from disease.sh API
- Implemented the Map visualization using **React Leaflet** to illustrate the geographical distribution of covid cases
- Integrated a Filtering feature to filter on the basis of country and display statistics of the worldwide covid cases
- Designed smooth interface using MaterialUI icons and components and deployed the webapp on **Google firebase**

Big Integer Library

May'21 - jun'21

- Built a C++ Library to perform mathematical and logical operations on integers with bit size larger than 64-bit
- Implemented Arithmetic, Assignment, Comparison operations as member functions and returns output as string
- Utilized various Object-Oriented Programming (OOPS) techniques such as **Operator Overloading** and **this** pointer

TECHNICAL SKILLS

Languages: C, C++, Python, HTML, CSS, JavaScript

Frameworks: C++ STL, ReactJS, Node.js, Bootstrap, Express.js, Tailwind CSS, Material-UI

Developer Tools: Github, MongoDB, VS Code, Matlab, CPLEX, Pycharm, MS-Excel, Postman, Arena Simulation

POSITIONS OF RESPONSIBILITY

Junior Coordinator | National Student's Space Challenge | IIT Kharagpur

Aug'19 - Aug'20

- Managed recruitment of new members and mentored a team of 20 members, conducted seminars for NSSC'19
- Organised various events and garnered a participation of 150+ students and managed accommodation for them

EXTRA CURRICULAR ACTIVITIES

- Won Silver medal among 30+ participants in Open IIT powerlifting competition 2023 under gymkhana, IIT KGP
- Part of Silver winning team, Radhakrishnan Hall of Residence for Inter-Hall Illumination Competition year 2019
- Active member of the Music team of RadhaKrishnan Hall and performed guitar in numerous cultural events
- Participated enthusiastically in Health and Fitness sessions for over two years and even led several sessions