

# Tushar Reddy

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## EDUCATION

### Visvesvaraya Technological University (VTU)

*Bachelor of Engineering in Computer Science*

Bengaluru, Karnataka

*September. 2019 – July 2023*

### Elective courses

*Advanced Java/J2EE, Digital Image Processing, UI/UX Design*

## RESEARCH EXPERIENCE

### Undergraduate Research Assistant

*Dayananda Sagar Academy of Technology & Management*

October 2022 – Present

*Bengaluru, Karnataka*

- Jointly Theorized an image processing pipeline based on haemoprotozoan bloodstream scans for cattle
- Formulated a scalable hosted full-stack Client Server application using React, Node.js and AWS services
- currently exploring ways to build & run the classification ML algorithm on the server to return the result

### Hackathon Research Participant

*Manthan - Govt. of India*

September 2021 - February 2022

*Bengaluru, Karnataka*

- Collaborated to Build & Test a data analysis model for crime analysis using a custom formula
- Progressively built the Frontend for searching & fetching the Dataset for cases and results
- Verified, proofread and edited the research paper & synopsis for correctness and accuracy

## PROJECTS

### GameDB | *React, Node.js, MySQL, Axios, Express*

January 2021 – March 2021

- Developed a full-stack web application using node.js serving a self contained REST API with React as the frontend
- Implemented Custom authentication to get data from user/admin login, along with secure data handling in DB
- Generated routes and differentiated between auth tiers to limit & access tasks propagating with the UI
- Leveraged MySQL for storing, fetching, modifying & deleting of data along with handling dynamic queries

### Graphical Authentication | *React, Node.js, React-router, Material-UI, Heroku*

April 2021 – June 2021

- Developed the front-end, along with the authentication & backend endpoints to integrate the webstack together
- Modified a grid based system using Material-UI to dynamically scale, scroll and toggle to select multiple images
- Collaborated with other team members to build, debug, and integrate the codebase in order to host it in the cloud

### CustomIce | *Java, Kotlin, Android Studio, Git/Github*

April 2022 – August 2022

- Built a fully functioning app to Select, Customize, and Enter the address of delivery for an ice cream order
- Utilized and generated reusable UI components using the Drawable library, for efficient selection and native scaling
- Designed and expanded the billing function to dynamically pass the correct tab between activities and fragments

## TECHNICAL SKILLS

**Languages:** Javascript, C/C++, SQL (MySQL), Java, MongoDB, HTML/CSS

**Frameworks:** React, Node.js, Express, Axios, Material-UI, React-router, Mongoose, Jest, Bootstrap

**Developer Tools:** Git Bash, Github Pages, AWS CLI, Amazon Web Services, Cloudflare DNS/Pages, Fly.io

## OTHER INTERESTS

**Internship experience:** Interned at Tequed Labs to create on a person-phone storage service, allowing to create/modify/delete the entries, using a self-made API.

**College Events:** Joint Coding Club Lead and Hackathon Organizer; Taught juniors the basics of algorithms & data structures, along with Version Control using Git/Github; Collaborated on Coding competitions & Hackathons

**Competitive Programming:** Interested in Algorithms/Data Structures; Solved 200+ problems on

Codeforces/Codechef/Leetcode; Participated in the ACM-ICPC, representing the college; National rank: 1200

**Volunteering:** Interned at Transit Treatment Center to assist in the Rescue, Rehabilitation, Pre-release monitoring and Release of wild animals.

**Hobbies:** National level junior tennis champion, Touch Typist (120+ wpm), Building and Modding Mech Keyboards