

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, Image Processing, UI/UX Design

RESEARCH EXPERIENCE

Undergraduate Research Assistant

Dayananda Sagar Academy of Technology & Management

November 2022 – Present

Bengaluru, Karnataka

- Theorized an image processing pipeline based on haemoprotozoan bloodstream scans for cattle
- Designed a scalable hosted full-stack Client Server application using React, Node.js and AWS services
- Talked to multiple Veterinary doctors to collect data and feedback on how to make the webapp more intuitive
- Explored ways to build & run the classification ML algorithm on the server to return the result

Hackathon Research Participant

Manthan - IndiaGov

September 2021 - January 2022

Bengaluru, Karnataka

- Built & tested a data analysis model for crime analysis using a custom formula
- Assessed, maintained and debugged the Codebase for edge cases and correctness verification
- Progressively built the Frontend for searching and crawling the Dataset for cases and results
- Verified, proofread and edited the research paper & synopsis for correctness and verifiability

PROJECTS

GameDB | *React, Node.js, CSS, React Router, mySQL, Express, Material-UI*

January 2021 – March 2021

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

Graphical Password Authentication | *ML API, JavaScript, node.js, Router, Git*

April 2021 – June 2021

- Developed the front-end, along with the authentication & backend endpoints to integrate the webstack together
- Developed a grid based system using Material-UI to dynamically scale, scroll and toggle to select multiple images
- Utilized git branches to work on the codebase separately and prevent and unforeseen bugs or integration issues
- Collaborated with other team members to build, debug, and integrate the codebase in order to host it in the cloud

TECHNICAL SKILLS

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

Frameworks: React, Node.js, Express, Axios, Material-UI, Router

Developer Tools: Git, Github, AWS CLI, Amazon Web Services, Cloudflare DNS/Pages, Fly.dev, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Android Studio

Libraries: pandas, NumPy, Matplotlib