Tushar Reddy

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EDUCATION

California State University, Chico — Chico, California - USA
Master of Science in Computer Science — *August. 2023 – 2025*

Visvesvaraya Technological University (VTU) — Bangalore, India
Bachelor of Engineering in Computer Science — *September. 2019 – June 2023*

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, C++, Java, SQL (MySQL), NoSQL (MongoDB), HTML/CSS, MDX
Frameworks: React, Node.js, Express, Tailwind, MUI, Jest, Cypress, React-router, Mongoose, Bootstrap, Vite
Developer Tools: Git/Github, AWS cloud, Docker, Cloudflare, Postman, Fly.io, Cyberduck, ChatGPT, Copilot

EXPERIENCE

Software Engineer - Summer Intern — May 2022 – August 2022
Tequed Labs — *Bangalore, India*
- Developed an end-to-end Full-stack application using React and implemented RESTful APIs for User data management with Node.js and Express; Monitored production level API requests/responses
- Tested React applications using Jest and Cypress to guarantee their functionality & Incorporated user authentication using JWT; Leveraged Fly.io for optimized hosting and deployment pipeline
- Managed domain registration and DNS settings through Google Domains & Cloudflare, establishing a streamlined workflow for efficient hosting, deployment, and domain management

Undergraduate Research Assistant — October 2022 – April 2023
DSCE — *Bangalore, India*
- Developed a multi-class image classification model using Python, Tensorflow, Keras & Flask, obtaining a 96% accuracy metric on the test dataset; Built & deployed the fully functioning production app with Streamlit
- Implemented effective data preprocessing techniques: image filtering, data scaling, and dataset splitting; This ensured high-quality training inputs for accurate predictions on unseen images.
- Incorporated neural network features including convolutional/pooling layers, batch normalization, and optimized network architectures to enhance the model's performance.

PROJECTS

GameDB | *React, Node.js, MySQL, Axios, Express* — January 2022 – March 2022
- 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 access & limit 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 – September 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* — May 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

OTHER INTERESTS

Hobbies: Sci-fi & Fantasy (Books/Series/Worldbuilding), Tech enthusiast(Displays/Audio/Keyboards), Tennis
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 and Release of wild animals.