Tushar Chenan

✉ tusky2002@gmail.com | 🔗 LinkedIn | ⌂ GitHub | 🆑 CodeChef | </> CodeForces

EDUCATION

Birla Institute of Technology & Science, Pilani   Hyderabad, India
*B.E. in Computer Science and Engineering; **CGPA: 9.69/10.00***   *Nov 2020 – July 2024*
- **Major coursework:** Operating Systems, Data Structures and Algorithms, Computer Architecture, Computer Networks, Compiler Construction, Software Engineering, Database Systems, Object-Oriented Programming
- **Additional coursework:** Foundations of Data Science, Design and Analysis of Algorithms, Computational Geometry, Theory of Computation, Discrete Structures for Computer Science, Professional Ethics, Game Theory

National Public School   Bangalore, India
*CBSE Class XII; **CGPA: 9.64/10.00***   *July 2020*
*CBSE Class X; **CGPA: 9.56/10.00***   *July 2018*

SKILLS

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

Technologies and Frameworks: MySQL, MongoDB, Express.js, React.js, Git, Docker, GraphQL

WORK EXPERIENCE

Google   Bangalore, India
Software Engineering Intern   *Jun 2023 – Aug 2023*
- Google developed an auxiliary cache on top of the MySQL InnoDB storage engine's buffer pool for improved database performance.
- Designed a verification utility to ensure data integrity and metadata consistency of this secondary cache.
- The utility was written in C++. Automated unit/end-to-end tests were written with MTR (MySQL Test Run).
- Gained a deep understanding of the InnoDB storage engine, buffer pool and the MySQL database architecture.

Centre for Development of Advanced Computing (C-DAC)   Pune, India
Full-Stack Development Intern   *Jun 2022 – Jul 2022*
- Developed a digital marketing website for super-computing systems and AI/ML APIs built by C-DAC.
- Front-end was built with React.js and is styled with Bootstrap CSS. Back-end was built with Python-Django and exposes a REST API.
- Features a chatbot built with Google's Dialog-Flow for an enhanced user experience.
- Incorporated continuous integration and deployment of the code repository to Heroku.

PROJECTS

Shiftrr. | MERN Stack Application   Jan 2022 – May 2022
- A platform for students to hire and offer freelance services in fields such as Web and App Development, Graphics Design, Music Production, and so on.
- Front-end was built with Next.js. Back-end was built with Node.js (Express) and MongoDB (Mongoose).
- Features automated unit tests, code coverage with Jest, Mocha and Chai, and deployment with GitHub Actions to Vercel.
- Developed while following Scrum guidelines and general Agile principles.

CRUx Forum | MERN Stack Application   Jun 2021 – May 2022
- A platform for campus-wide communication which enables clubs and departments to share notices with students while allowing students to comment and tag users.
- Front-end was built with React.js, using Tailwind CSS for styling. Back-end was built with Node.js, MongoDB and Apollo GraphQL.
- Unit testing and code coverage handled by Jest, Mocha and Chai. Deployed via GitHub actions to AWS.

AWARDS & ACHIEVEMENTS

Merit Scholarship: Awarded a 100% Merit Scholarship for being in the top 1% academically in my batch.

Indian Olympiad in Informatics (INOI): Top 158 among 835 students who qualified for the Indian Olympiad in Informatics.

HP Codewars, Bangalore: Rank 1 out of 100+ schools at HP Codewars, Bangalore 2019.

ICPC Regionalist: Rank 117/1107 at the 2020 ICPC Asia Gwalior-Pune Regional Contest.

Meta Hacker Cup: Global rank 833 in Meta Hacker Cup 2023 Round 2.

Expert on CodeForces: Peak rating of 1601 (Expert) on CodeForces.

5 stars on CodeChef: Peak rating of 2054 (5 stars) on Codechef.