SAKSHAM TIKOO

Software Engineer | tikoosaksham@icloud.com | Mumbai | Linkedin

Education

Veermata Jijabai Technological Institute (VJTI)

Bachelor of Technology in Computer Engineering, CGPA: 8.83/10

August 2019 - May 2023 Mumbai, India

Kendriya Vidhalaya Andrews Ganj

March 2013 - March 2018

Higher Secondary School Certificate, Score: 91.80%

Delhi, India

Experience

Morgan Stanley Software Engineer

August 2023 - Present

- Redesigned and modernized a legacy application to provide business users with actionable insights into the impact of Funds and their Managers on the firm's performance, empowering them to make data-driven, strategic decisions.
- Implemented 2 tier caching mechanism for the application, achieving a 72% reduction in processing latency. This optimization decreased the application load time from 25 seconds to just 7 seconds.
- Currently developing a unified caching solution using Redis and MongoDB which will serve multiple applications across the organization.

Morgan Stanley Software Engineer Intern

May 2022 - July 2022

- Upgraded a legacy codebase from .NET to Angular, enhancing both the UI and UX, resulting in a more intuitive user experience and significantly reducing training costs for new users.
- Implemented Single Sign-On (SSO) for seamless integration between applications, enabling automatic population of dynamic fields through the use of access tokens, improving user workflow and reducing login friction.

iMocha Problem Setter

August 2021 - April 2022

- Created coding challenges based on Data Structures and Algorithms. These challenges were used by our clients for recruiting tech talent.
- Provided solutions, test cases to coding challenges submitted by others and verified their solutions as well.

Achievements

- ICPC 2021-22 Regionalist: Ranked top 5% among 4992 teams in the preliminary round.
- Represented college in national level Indisafe Hackathon organised by Google Developers Student Club.
- Won and secured top 3 ranks in more than 10 programming contests held across colleges over India.
- Competitive Coding: Codechef Max Rating: 1851 (4 stars), Codeforces Max Rating: 1580 (Specialist).

Positions of responsibility

Head, Community of Coders VJTI

- · Head of Data Structures and Algorithms division of my college and under my leadership organized multiple coding events in my college like "Codetracks", "CTF" and "Codestorm".
- Taught C/C++ and DSA at various workshops attended by 200+ juniors.

Mentor for Inheritance, COC

- Mentored 2 teams for their app development projects.
- Helped them learn various tools and frameworks required to build their project.

Technical Skills

Programming Languages: C, C++, Java, Javascript, Python, SQL, TypeScript

Technologies/Frameworks: Angular, Docker, Firebase, Firestore, Hazelcast, Jenkins, MongoDB, NodeJS, React, React Native, Redis, Springboot

Projects

VJTI Helper | React-Native, Firebase | Github

- Developed an application for college students to keep track of the college specific activities like class attendance, GPA, TODO tasks, notices, and updates from the college.
- Implemented multifactor authentication using firebase, stored user data in firestore.
- Also used pie charts and graphs to visualize data like student's attendance.

TReLU | Research paper | IEEE

- Proposed a new method to train Network Intrusion Detection Systems introducing a novel activation function TReLU.
- Implemented hybrid model of CNN and BiLSTM with SMOTE and stratified K cross validation for data augmentation.
- Paper was presented at the 14th ICCCNT 2023 and has been published in the IEEE Xplore.

Nirman | Python, EJS, Javascript | Github

- A web application to collect data from the dark web and processing it to categorize relevant or irrelevant data.
- Used ConceptNet to extract intelligence and generate email requests for proprietary databases using amazon SES.