

# TUSHAR NANKANI

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## EDUCATION

### University of Mumbai - Thadomal Shahani Engineering College

Bachelor of Engineering, Computer Engineering; GPA: 9.45/10

Mumbai, India

Aug. 2019 – Jun. 2023

## EXPERIENCE

### JPMorgan Chase & Co.

Mumbai, India

Software Engineer I | Java, SQL, Pentaho, Unix, Agile

Aug. 2023 – Present

- Led end-to-end APAC regulatory programs like SEBI CEM and Hong Kong ELI, delivering annual savings of 250 person-days
- Reduced report generation time by 90%, automating five complex, end-to-end regulatory reports for the APAC region. Streamlined operations by eliminating weeks of manual effort per report cycle to under an hour
- Organized and executed *APAC Hacks* - An internal crowd-sourced hackathon to identify bottlenecks in our ecosystem and attempt to solve them; built under the themes of Cost Reduction, Process Improvement and Developer Experience

Software Engineer Intern | React.js, Redux, Spring, SQL, Agile

Jun. 2022 – Jul. 2022

- Migrated a multi-page application interface for the operations' dashboard of *Margin and Collateral Services*, from *Ext JS* to React.js
- Utilized the in-house JPMC's UI Toolkit, decommissioned the monolith legacy code into functional micro-frontend architecture

## PROJECTS

### DeepRacer Off The Spot | Python, Shell, AWS

Sep. 2024 – Sep. 2024

- Engineered a lightweight solution to automate manual tasks in AWS Console, featuring waypoint detection, plagiarism checking, resource deletion, reducing operational overhead for *AWS DeepRacer* organisers
- Contributed to JPMC *SEPathon 2024* with an open-source solution under GPL-3.0, delivering a parody-inspired utility to enhance accessibility and efficiency in AWS DeepRacer workflows

### ScanRE | React.js, Vite, Flask, *semgrep*, *ORT*, *GPT-4* | GitHub, Demo

May 2023 – Jun. 2023

- Built a Static Code Analysis Toolkit for vulnerability detection, integrated with GPT-4 for vulnerability mitigation suggestions
- Scanned 3000+ open-sourced GitHub repositories and 1000+ Android applications, reporting 12,000+ potential vulnerabilities in applications used by millions, majority of them are successfully patched

### DeepMint | JavaScript, Django, Solidity, *Truffle*, *Ganache*

Aug. 2022 – Mar. 2023

- Developed a Decentralized Application enabling users to trade Non-Fungible Tokens (NFTs) on marketplaces using cryptocurrencies
- Built a securely authenticated pipeline on Ethereum that reduces execution time by 72% from production to publication to the market
- Generates digital art by employing Deep Learning frameworks and deploys a custom ERC721 Smart Contract to mint NFTs

### Aankh | React.js, Express.js, MongoDB, OpenCV, TensorFlow, Flask | GitHub

Jan. 2022 – Mar. 2022

- Built an ML-based automated proctoring system, with features like face verification, multiple people detection, multi-tab check
- Offers a 76% cost-effective pricing model, by providing an accessible admin dashboard to monitor user warning logs and statistics

### Blurrit | JavaScript, CSS | GitHub, Web Store

Oct. 2022 – Nov. 2022

- Published a lightweight (<10KB) web extension to blur private data on WhatsApp Web, garnering around 250 daily active users

### WhatsApp Chat Data Analysis | Python (NumPy, Pandas, Matplotlib, Seaborn) | GitHub, Blog

Oct. 2020 – Nov. 2020

- Built a WhatsApp Chat Data analysis tool providing 12+ trends like user activity, top emojis, sleep patterns, usage of swear words

## EXTRACURRICULAR ACTIVITY

### Community Work | [experience.tusharnankani.com](https://experience.tusharnankani.com)

- Spearheading JPMC's *Ignite Web Development* as a Community Lead, driving creative initiatives and fostering collaboration
- Mentored and facilitated the JPMC's *GenerationTech for Good 2024* for young underprivileged students to spark an interest in STEM
- Hosted 1600+ hours of weekly *OTC CatchUp* sessions involving technical discussions, project showcases and talks
- Advised the *Friends of Figma*, *Mumbai* Community engaging and supporting 550+ members as a community volunteer
- Led *TSEC CodeCell*, organizing 3 editions of *TSEC Hacks (2021-23)* for a cumulative of 800+ in-person participants
- Impacted 1750+ people in 15+ [talks and workshops](#) at various technical meetups and conferences across the city

### Achievements

- Winner at the JPMC *SEPathon 2024* (30+ teams) for building *DeepRacer off the spot* utility for the AWS DeepRacer annual event
- Received the prestigious *Principal's Award of Excellence* (top 1%) – for a well-rounded profile in the Engineering Batch of 2019-23
- Received the *Leadership's Award* (top 0.1%) – for leading *Google Developers Group*, *TSEC* and *TSEC CodeCell*
- Winner (Cybersecurity Track) – *MumbaiHacks'23*, *Google Developer Groups*, *Mumbai* (100+ teams), receiving Rs. 100,000 (\$1200)
- First runners-Up – *Code For Good'21* (100+ teams), Winner – First Post-Trade Tech Hackathon (10+ teams), at JPMorgan Chase & Co
- Top 20 – *Harbinger 2023*, *Reserve Bank of India* (RBI)'s International Hackathon (Amongst 363 teams from 22 countries)