

# TUSHAR NANKANI

[tusharnankani.com](https://tusharnankani.com) | [linkedin.com/in/tusharnankani](https://linkedin.com/in/tusharnankani) | [github.com/tusharnankani](https://github.com/tusharnankani) | [contact@tusharnankani.com](mailto:contact@tusharnankani.com)

## 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.

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

Mumbai, India

Aug. 2023 – Present

- Improved the efficiency by 62% of an EMEA regulatory report, migrating the ecosystem from [Pentaho](#) 7.0 to Java 11
- Achieved a 35% reduction in Cloud resource usage by optimizing cron jobs, refining server calls, and minimizing database copies
- Improved report generation time by > 90% through successful automation of three end-to-end Regulatory reports in the APAC region regulation, achieved by eliminating manual efforts of the operations team
- Configured Jenkins jobs for CI/CD and increased coverage of unit and end-to-end test cases to > 80%

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

### Nestlé

IT Intern | Python, SAP

Remote

Nov. 2021 – Dec. 2021

- Contributed to the SAP Config project, aiding in evidence discovery and analysis, partnering with Senior IT leads
- Enhanced test case effectiveness by an improvement of 12%, after incorporating feedback from cross-functional testers

## PROJECTS

### 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

### RaashiPay | React Native, Tailwind CSS, Express.js

Jan. 2023 – Oct. 2023

- Engineered offline digital transactions for [Central Bank Digital Currency](#) (CBDC) between Android devices via Wi-Fi Direct
- Employed an [NIST](#)-approved post-quantum encryption system called Falcon to mitigate the risk of double spending

### 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 100+ 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

## PUBLICATIONS

- "DeepMint: NFT Generation Using Deep Learning", International Conference on Recent Advancements in AI - ICRAAI'23

## EXTRACURRICULAR ACTIVITY

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

- Led Google Developer Student Club (GDSC) TSEC, consisting of 545+ members (162% increase)
- Led TSEC CodeCell, organizing 3 editions of TSEC Hacks (2021-23) with a cumulative of 800+ in-person participants
- Hosted 1600+ hours of weekly [OTC CatchUp](#) sessions involving technical discussions, project showcases and talks
- Impacted 1750+ people in 15+ [talks and workshops](#) at various technical meetups and conferences across the city
- Leading the [Friends of Figma](#), Mumbai Community consisting of 550+ members
- [Mentored and judged](#) hackathons like [SPIT's Technovate 2023](#), [Nakshatra 2022](#) and [WAccing 2022](#)

### Achievements

- 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 GDSC TSEC and TSEC CodeCell at my university
- 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)