TUSHAR NANKANI

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EDUCATION

University of Mumbai - Thadomal Shahani Engineering College   Mumbai, India
Bachelor of Engineering, Computer Engineering; GPA: 9.45/10   *Aug. 2019 – Jun. 2023*

EXPERIENCE

JPMorgan Chase & Co.   Mumbai, India
Software Engineer I | Java, SQL, Pentaho, Unix, Agile   *Aug. 2023 – Present*
- Reduced report generation time by 99.4%, 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 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
- 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 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)