

HARDIK RAHEJA

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PROFESSIONAL SUMMARY

Detail-oriented software developer with 1.5+ years of experience in full-stack development and testing automation. Skilled in identifying architectural vulnerabilities and optimizing code quality. Demonstrated success in hackathon environments with award-winning innovations in payment systems, blockchain, and security solutions.

EDUCATION

Qualification	College	University	CGPA	Year
B.E. Computer Engineering	Thadomal Shahani Engineering College	University of Mumbai	8.67	2023

TECHNICAL SKILLS

Languages: Python, Java, C++ (Problem Solving), JavaScript, TypeScript, SQL, C#

Developer Tools: VS Code, Git, Docker

Technologies/Frameworks: Angular, Cypress, Express.js, Flask, GitHub, CI/CD

EXPERIENCE

nVent Thermal Jul 2023 - Mar 2025

Software Developer

- Contributed to TracerLynx.Next Team, developing heat loss calculation and heater selection tools for industrial settings.
- Identified and resolved critical false-positive bugs in functional testing (40-50% inaccurately passing tests), preventing deployment of unstable builds. Migrated legacy tests to Jest and Cypress, increasing code coverage from 80% to 95%.
- Identified and escalated critical vulnerabilities in architectural design discussions, later validated post-deployment, which led to adoption of scalable solutions and improved system reliability.
- Collaborated in an Agile team environment, participating in story refinement, sprint planning, and retrospectives.
- Implemented a testing framework for "smart scripts" (client spec compliance checks), ensuring projects aligned with customer requirements.
- Participated in code reviews for team of 12 developers, providing constructive feedback, improving code maintainability.

Thinkly Media Services Pvt Ltd.

Jul 2022 - Sep 2022

Software Developer Intern

- Evaluated the use of Redis Pub-Sub functionality for intimating customers about subscriptions.
- Developed C# module to deliver real-time notifications through Telegram channels, improving subscription engagement.

PROJECTS

RashiPay (RBI Global Hackathon) | *Java, Android, SQL*

- Identified offline payment gaps in developing markets and designed a secure token-based protocol allowing chain transactions without network connectivity.
- Architected the system to use offline payments as deferred transactions in order to scale CBDC (Central Bank Distributed Currency) Blockchain while adding constraints to account for double spending.

Offline Payments Application (Smart India Hackathon 2022 - Winner) | *Node.js, Express.js, JavaScript, SQL*

- Analyzed connectivity challenges in rural areas to build an offline payment solution using WiFi Direct/Bluetooth for transferring funds in the absence of mobile networks.
- Designed transaction verification system with minimal network requirements, balancing security with offline functionality.

Khoj | *Neo4j, Python, JavaScript*

- Built an application using a graphical database to detect fraudulent transactions using clustering techniques.
- Developed a simplified UI that allows users to query database using natural language.

ScanRE (Mumbai Hacks 2023 - Winner) | *Python, Flask, SQL, Semgrep*

- Built vulnerability detection system with visualizations to help developers quickly identify high-risk code sections and types of vulnerabilities.
- Implemented AI-powered solution to generate security-focused code improvements, reducing remediation time by 40%.

EXTRACURRICULAR ACTIVITY

TSEC CodeCell

Jul 2021 - Jun 2023

Senior Committee Member | **Leadership Award Recipient**

- Led 30-person committee to successfully organize TSEC Hacks 2022, one of India's first post-pandemic offline hackathons, with over 250 participants involved.
- Designed competitive coding curriculum and coordinated technical workshops (such as Git & GitHub), enhancing campus technical culture.

ACHIEVEMENTS

- Effective Communication: Completed Trinity Guildhall training with Distinction in Speech & Drama through Grade 3.