

# Neeraj Kulkarni

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## Education

### Savitribai Phule Pune University

Bachelor of Computer Engineering, 9.01/10

Honors: Data Science & Visualization

Pune, MH

2020-2024

## Experience

### Qualys Techsecurity Private Limited

Fullstack Engineer

Pune, MH

June 2024 – Current

- Worked on onboarding and integrating OAuth 2.0 and OIDC authentication across the company while helping implement authentication mechanisms and access control policies.
- Assisted in the development of connectors to ingest security data from external sources and reduced the time required to bring a connector to the marketplace from 3 months to just 3 weeks.
- Tech Stack : ReactJS, Redux Toolkit, Spring Boot 3.x

## Publications

### FinBHARAT - Stock Prediction Using Transformer

2024

A transformer-based model based on 84,000+ Indian stock market data points which integrates price, volume, technical indicators, and sentiment analysis to enhance stock price prediction and market trend insights.

### Protected Health Information Exchange using Subscription Model

2022

Sharing private medical data with interested parties like researchers and insurance companies will be facilitated by a blockchain-based data management system. The patient will be compensated with ERC-721-compliant tokens that have real-world value when someone uses their data.

### Emotion-Based Music Recommendation Algorithm

2021

Literature survey on human responses to the music according to their mood. Filed a copyright for the questionnaire for recommending music based on emotions

## Projects

### Decentralized Identity

2024

A decentralized identity management system using Ethereum blockchain, IPFS, and W3C DID standards to implement self-sovereign identity and verification using ZK-snark.

### Smart India Hackathon (Finalist)

2022

An app that uses deep learning model LayoutLM and NLP to enhance character recognition for scanning textbook content.

### TezAsia Hackathon

2022

Implementation of lazy minting on Tezos blockchain

## Skills & Interests

- **Technical Clubs:**
  - Vice Chair Person of PCCOER ACM Students Chapter
  - Blockchain Head of Google Developers Students Club
- **Tech Stack:** Javascript, NextJS, ReactJS, PostgreSQL, Oracle SQL, MongoDB, Java, Spring Boot, Python, Django, FastAPI, Kubernetes, Docker, Jenkins, Git