

SOHAM BHOIR

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Education

K J Somaiya College of Engineering

Sep. 2020 – Dec 2024

Bachelor of Technology in Information Technology (CGPA: 9.33/10)

Mumbai, IN

Technical Skills

Languages/Tools: Java, Rust, Bash, C++, Python, TypeScript, Docker, Kubernetes, CI/CD, Firebase

Blockchain: Solidity, Hardhat, Geth, Polygon, EthersJS, IPFS, Libp2p

Frontend: ReactJS, Redux, NextJS, React Native

Backend: ExpressJS, Django REST Framework

Cloud: AWS, GCP, OCI, Azure

Machine Learning: PyTorch, Tensorflow, Qiskit, PennyLane

Database: PostgreSQL, MySQL, MongoDB, Oracle Autonomous DB

Experience

Oracle Financial Software Services

June 2024 – Current

Software Developer (ACON)

Mumbai

- Spearheading the development of a Generative AI solution for HDFC Bank's batch support, utilizing Oracle Cloud Infrastructure (OCI) for scalable deployment and integration.
- Managed containerized deployments with OCI Container Engine for Kubernetes (OKE), reducing deployment time by 40% through automated CI/CD pipelines, leveraging OCI DevOps and Helm for infrastructure provisioning.
- Designed an end-to-end OCI automation tool for Oracle's Flexcube system, eliminating manual intervention by automating VM provisioning, Kubernetes cluster setup, application deployment, and monitoring.

Protocol Labs

January 2024 - May 2024

Dev Guild

Remote

- Actively contributed to the enhancement of cutting-edge decentralized technologies, including IPFS, Akave, py-Libp2p, and Checkernetwork.
- Designed, developed, and deployed robust middleware solutions in Akave; engineered and integrated a performant Peer Store and AutoNAT, Hole-Punching framework to optimize peer-to-peer network connectivity and reliability.

Maalvo MSME

Sept 2021 – March 2022

ReactJS Developer Intern

Mumbai

- Designed React components, improving app functionality by 20%. Implemented CI/CD pipelines, reducing deployment time.
- Contributed to code reviews, improving code quality and enforcing React design patterns across the development process.

Publications

Quantum Deep Learning Research

- "Dark Web Marketplace Image Classification Using Quantum Convolutional Neural Network" published and presented at IEEE 2022 The International Conference for Trends in Quantum Computing and Emerging Business Technologies. ([link to the paper](#))

Quantum NLP Research

- A chapter titled "Dark Web Content Classification using Quantum Encoding" accepted in the book titled "Methodologies and Application of Quantum Computing in Cyber Terrorism and Security Framework." The book is published by Wiley and is indexed by Scopus and offered to Web of Science. ([link to the paper](#))

Projects

HAS-Chain | *Polygon, CUDA, Geth, EVM, Prometheus, IPFS, Ethash, Hardhat*

- Solved counterfeiting problem for 1000+ artisans using NFTs building blockchain on HiveOs and ERC721 smart contract
- Reduced gas fees by 95% by developing an optimized L2 chain with Polygon Edge, GETH, libp2p-based consensus

Chakra View | *ReactNative, NextJS, Tensorflow, Qiskit, Firebase, Django, AWS, Kubernetes, Docker*

- Deployed on-premise real-time monitoring system, reduced 40% response time for Mumbai Police using Kafka & NodeJS
- Improved threat prediction accuracy by 15% by collecting GNSS data and implementing LSTM-based Anomaly Detection

Achievements / Extracurricular

- Winner of UnFold, Edelweiss, BitNBuild, Unscript, HackerSteller and Smart India Hackathons.
- First runner-up in Smart India Hackathon 2023 & Kavach Cybersecurity Hackathon (National Level).