

Manas Tole

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EDUCATION :

August 2019 - May 2023

BACHELOR'S DEGREE, I SQUARE IT college - Savitribai Phule Pune University, India

- Course: **Information Technology**
- CGPA: **9.00** (on a scale of 10)
- Relevant Coursework: Data Structures, **Algorithms Analysis**, Artificial Intelligence, SDLC, Operating System, Cloud Computing, Database Management, Internet Technology, **Computer Architecture**, **Object Oriented Programming**, **System Design**, **Blockchain Technology**

WORKING EXPERIENCE :

BAJAJ ALLIANZ GENERAL INSURANCE COMPANY, INDIA

APPLICATION ENGINEER | July 2023 – July 2024 | Full Time

- Led full-stack application development from conception to cloud deployment.
- Established secure API gateways for frontend-backend communication.
- Managed infrastructure setup, demonstrating proficiency in diverse technologies.

SENIOR APPLICATION ENGINEER | August 2024 – present | Full Time

- **Promoted within a twelve-month timeframe**, leading a team of 5 developers.
- **Led full-stack application development** for MSME's and Red Hat Single Sign-On projects, from frontend-backend development to cloud deployment, while managing a team of developers.
- **Established secure API gateways** for seamless frontend-backend communication, infra setup, cloud development and deployment for ensuring robust data protection.
- **Managed infrastructure setup**, showcasing proficiency in a wide range of technologies and cloud platforms.

ETHDC TECHNOLOGIES PRIVATE LIMITED, PUNE, INDIA

PROJECT INTERN | October 2022 – March 2023 | Part Time - Internship

- Spearheaded **full-stack application development lifecycle**, from initiation to deployment.
- Implemented robust **API gateways** for secure frontend-backend communication.
- Managed infrastructure setup and maintenance, showcasing proficiency across various technologies

LET'S GROWMORE, PUNE, INDIA

WEB DEVELOPER | January 2022 – February 2022 | Part Time - Internship

- Designed and implemented highly interactive & customized UI's. Developed backend functionality using **Node.js** and **Java** to empower web pages with dynamic features.
- Ensured seamless integration between frontend and backend for optimal user experience and functionality.

GEEKS-FOR-GEEKS, PUNE, INDIA

TECHNICAL CONTENT WRITER | March 2021 – November 2021 | Part Time - Internship

- Authored 15+ technical articles on **Java**, **Spring**, **Collection Framework**, **JDBC**, and **J2EE**.
- Revised and improved 5+ existing technical articles on related topics.
- Demonstrated expertise in communicating complex technical concepts effectively.

WEBBEEY INFOTECH PVT. LTD., PUNE, INDIA

APPLICATION DEVELOPER | February 2020 – April 2020 | Part Time - Internship

- Using **Java/ J2EE technologies**, I developed applications for clients and added functionalities to existing applications as per the requirement as well as performed **unit testing** of applications using **JUnit**.

TECHNICAL SKILLS :

Programming Languages: Java, C++, Python, JavaScript, XML, SQL, PLSql

Frameworks: J2EE, Collection, Spring

API's: Servlet, REST

DATABASES: Oracle, MYSQL, a Database SQL command, Hyperledger, MongoDB

Cloud and Distributed Computing: Docker, Kubernetes, Google Cloud

Web Technologies: HTML5, CSS, Bootstrap, React, Angular, Node.js

Operating Systems: Microsoft Windows, Linux

Machine Learning: pandas, sci-kit-learn, TensorFlow, Matplotlib

Cloud Platforms: AWS, GCP

Development Tools : Truffle, Ganache, Remix, Git, Jira, Docker

CERTIFICATIONS :

Smart India Hackathon

#30DaysofGoogleCloud Program Certified

Oracle certified Database Developer

Google Hash Code & Kick Start Participation Certificate (2020 & 2021)

Udemy Certified Java Developer & Python Developer

Elementary Art Drawing Grade Examination (A+)

Coursera - Data structure and Algorithms in Java

Coursera certified Greedy Algorithms, Minimum Spanning Trees, and Dynamic Programming

Hardvard'sCourses : CS50AI, CS50S,

TECHNICAL PROJECTS :

ENHANCEMENT OF VOTING SYSTEM USING BLOCK-CHAIN | August 2022 - March 2023

- Enhanced traditional voting system with blockchain for transparency, security; developed DApp for tamper-resistant voting records.
- Blockchain Platform (**Ethereum** and **Hyperledger Fabric**) **smart contracts** (Solidity, Chaincode) frontend (HTML/CSS, JavaScript, Web3.js) backend (Node.js, Express.js) database (MongoDB) and (utilizing **Truffle**, **Ganache**, and **Remix**) as development tools.

RECOMMENDATION SYSTEM FOR E-COMMERCE PLATFORM | November 2022-March 2023

- Developed ML-based recommendation system for e-commerce, enhancing user experience & boosting sales by personalizing product recommendations through collaborative filtering.
- Machine Learning (**Python**, **scikit-learn**, **TensorFlow**), Frontend (**HTML/CSS**, **JavaScript**, **React.js**), Backend (**Node.js**, **Express.js**), DB (**MongoDB**) & Dev Tools (**Git**, **Jira**, **Docker**).

FOOD DELIVERY ANDROID APPLICATION | August 2022 - November 2022

- Developed user-friendly food ordering platform; designed intuitive interfaces for customers/restaurants; implemented efficient backend with Node.js/Express.js.
- React.js** for frontend, **MongoDB** for database, & **AWS**/Heroku for cloud infrastructure.

DIGI-CRYPT APPLICATION | January 2022 - May 2022

- Designed and developed Digi-Crypt, a Digital Vault, leveraging **Java technologies**, to provide users with a secure repository for storing and managing confidential information such as documents, usernames, and passwords.

MULTI-CLIENT CHATTING APPLICATION | July 2021 - May 2022

- Developed a **multi-client communication system** enabling user interaction through a central server, fostering seamless communication & collaboration among multiple clients in real-time for enhanced connectivity and efficiency.

PLASMA DONOR MANAGEMENT SYSTEM | June 2020 - May 2022

- Developed a comprehensive **Java application** aimed at facilitating plasma and blood donation for Covid-19 patients. The platform serves as a vital resource, connecting donors with recipients to address urgent medical requirements during the pandemic.

RESEARCH EXPERIENCE :

" **Hyperledger-Based Blockchain Technology for Data Security in E-Voting Systems** " (Vol-1) , International Journal of Advance Computational Engineering and Networking (IJACEN) , pp. 92-98, Volume-11, Issue-6

- This study explores leveraging blockchain for **secure e-voting**, examining **data security**, **encryption**, and **privacy literature**. Basic **encryption algorithms** like **RSA**, **DSA** were analyzed, critiquing Ethereum-based e-voting implementations.
- HyperledgerFabric emerges as a viable solution, ensuring secure, transparent, & anonymous voting. Findings suggest blockchain's promise in ensuring transparency & security.

"**Hyperledger Based Blockchain Technology for Data Security in E-voting Systems**"
Academic Conference Network

- This study explores the potential of blockchain technology to enhance security in e-voting systems, examining various encryption methods and criticizing Ethereum-based implementations.
- It highlights the benefits of blockchain in ensuring transparency and security, while discussing scalability challenges and proposing Hyperledger Fabric as a viable solution.

" **Hyperledger-Based Blockchain Technology for Data Security in E-Voting Systems**" (Vol - 2) , International Journal of Advance Computational Engineering and Networking (IJACEN) , (ongoing)

- This research delves into the application of blockchain technology for **enhancing the security** of electronic voting systems, with a comprehensive examination of **data security**, **encryption methodologies**, and **privacy frameworks**. The findings underscore the potential of blockchain to revolutionize electoral systems by significantly bolstering transparency and security, addressing key challenges inherent in traditional e-voting mechanisms.

CS50W, CS50X

AWS Cloud Architect Certification
(on-going)

OPEN-SOURCE CONTRIBUTIONS :

2020 & 2021 edition **Girlscript Summer of code**, Girlscript Foundation

2021 edition **Girlscript Winter of code**, Girlscript Foundation

POSITIONS AND RESPONSIBILITIES :

August 2022 - Present

GEEKS-FOR-GEEKS STUDENT CHAPTER, Chair-person

August 2022 - Present

CODE CLUB, Technical Lead

July 2021 - May 2022

GOOGLE DEVELOPER STUDENTS CLUB (GDSC), Cloud lead

June 2020 - May 2022

ASSOCIATION FOR COMPUTING MACHINERY Committee, Executive member

AWARDS AND HONORS :

May 2023 - June 2024

STUDENT OF THE YEAR - I SQUARE IT

July 2023 – July 2024

PERFORMER OF THE YEAR - Bajaj Allianz General Insurance Company.

Jan 2024 – July 2024

PERFORMER OF THE QUARTER- Bajaj Allianz General Insurance Company.

HOBBIES :

Reading Novels & Stories,
Playing Cricket, Drawing
Dancing, and Cooking

LANGUAGES :

Marathi (Native)
Hindi
English