

TIRTH NAIK

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🌐 [Linkedin](#)

🐙 [Github](#)

🌐 [Portfolio](#)

Education

Northeastern University

Masters of Science in Information Systems

May 2026

Boston, MA

University of Mumbai, India

B.E in Electronics and Telecommunication

Jun. 2024

Mumbai, India

Technical Skills

Languages : Java, Python, JavaScript, HTML, CSS

Developer Tools : Github, Postman, JIRA, Jenkins, Datadog

Technologies/Frameworks : React, Vue, Springboot, Hibernate, Express, Node, Angular, MySQL, Streamlit, Chroma

Cloud Technologies: Docker, AWS, Kubernetes, AWS EC2, S3, Azure, GCP, CI/CD

Testing Tools & Libraries: JUnit, Mockito, Selenium, Jest, NumPy, Pandas, Scikit-learn, TensorFlow, LangChain

Experience

Archi Farming Equipment

Aug. 2023 – Feb. 2024

Software Engineer Intern

Gujarat, India

- Contributed to the development of an E-commerce platform using **Java (Spring Boot)**, **React**, and **MySQL**, gaining hands-on experience in full-stack development and **Agile methodologies**
- Integrated third-party **RESTFUL APIs** into the application, leveraging **AWS** services to extend functionality and enable seamless interaction with external services, including **AWS S3** for file storage
- Collaborated in writing unit and integration testing using **JUnit** and **Mockito**, achieving better test coverage and improving API reliability through automated test cases
- Diagnosed and resolved production issues using monitoring tools like **Datadog** to ensure system stability and performance, while also conducting **root cause analysis**
- Worked closely and communicated with cross-functional teams to modernize legacy code structures by migrating services to **Spring Boot** microservices and optimizing database interactions using **Hibernate ORM** and caching techniques
- Automated CI/CD pipelines using **Jenkins** and **GitHub Actions**, integrating backend testing with **Selenium**

Mahindra & Mahindra Ltd

May 2021 – Apr. 2022

Software Developer Intern

Mumbai, Maharashtra

- Engineered dynamic user interfaces using **React** and **TypeScript**, while developing RESTful APIs with **Spring Boot**, ensuring efficient communication between frontend and backend and optimizing data processing and scalability.
- Implemented **JWT-based authentication** and role-based access control in both frontend (React/TypeScript) and backend (Java/Spring Boot) to enhance security, ensuring secure user access and data protection across the application.
- Managed MongoDB databases for optimized data handling and query performance, utilizing Git, **Docker**, **Postman**, and **MERN** stack technologies for version control, containerization, and API testing.
- Performed UI testing using **Jest** and **Selenium** to validate functionality, improve reliability, and seamless integration

Projects

CryptoVault - Cryptocurrency Website | *MongoDB, Express.js, Vite+React.js, Node.js*

[Github Link](#)

- Built a cryptocurrency portfolio tracker application using **MERN stack**, implementing features such as **CRUD** operations, real-time price alerts, **JWT authentication**, and dynamic charts for portfolio analysis
- Developed scalable web applications by implementing using **Redux management**, internationalization, and Progressive Web App capabilities, ensuring responsive, and offline-first user experiences integrating **CoinMarketCap API**

DocumentBOT - AI-Powered Document Automation | *LLMs, LangChain, Chroma, Streamlit*

[Github Link](#)

- Built document chatbot using **Gemini** and LangChain to process and respond to complex queries based on PDF texts
- Leveraged **OpenAI** embeddings and **LangChain's** retrieval chain to optimize processing and boost response accuracy
- Deployed **Streamlit** app to provide interactive interface, allowing real-time user queries with inference via **GroqAPI**

Bulk Email Providing Service | *SMTP, OpenDKIM, DNS, SSL/TLS, Mautic*

[Website Link](#)

- Set up & configured **SMTP** on a **VPS** using **Postfix** to enable reliable & secure bulk email
- Configured & verified **DKIM**, **DMARC**, and integrated **SSL/TLS** encryption ensuring data integrity and **DNS** settings
- Published a [research paper](#) in the International Advanced Research Journal in Science, Engineering & Technology