

Mayank Bhadrasen

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Education

Northeastern University, Boston, MA

Expected 2026

Master of Science in Information Systems

Relevant Courses : Application Engineering Development, Web Design and User Experience Engineering, Program Structures and Algorithms and Cryptocurrency and Smart Contract Engineering.

Shri G. S. Institute of Technology and Science, Indore, India

2021

Bachelors of Engineering in Information Technology

Relevant Courses: Object-Oriented Programming, Data Structures, Discrete Structures, Web Engineering and Artificial Intelligence.

Skills

- **Languages:** JavaScript (ES6+), Python, Java, TypeScript, Solidity, HTML5, CSS3, SCSS, SQL
- **Libraries & Frameworks:** React.js, Redux, Node.js, Next.js, Django, Ether.js, Viem, Chart.js, Wagmi, RainbowKit, Ant-Design, Material UI, Bootstrap, D3.js, Formik, YUP, jQuery
- **Tools & Platforms:** Tenderly (Ethereum Fork), Hardhat, Vercel, MetaMask, Git, Github, AI Prompting, Shell, Postman, MongoDB, Firebase, SQLite, Apache NetBeans, VS Code, Docker, AWS, Wordpress, Figma, Remix IDE, OAuth 2.0, JWT, RESTful APIs, API Integration, AJAX, JSON, WebSockets, SEO Principles, MVC/MVT Architecture, CI/CD, UI/UX Design, Cross-Browser Compatibility, Performance Optimization, Java Swing, JavaFx, Eclipse IDE, Kubernetes

Work Experience

AESS Solutions Pvt. Ltd., Bhopal, India

Nov 2022 - Nov 2023

Assistant Manager of Front-End Development

- Led the migration of a HR Management system platform from .NET to React.js, redesigning workflows for 500+ active users. Reduced reloads and improved state rendering with Material UI, resulting in a **25% boost in task efficiency**
- Built a real-time Team Hierarchy chart with React D3 tree and dynamic calendar using Ant Design and APIs, improving **scheduling efficiency by 30%**
- Reduced **post-deployment issues by 20%** via proactive Postman testing, agile sprints, and validations using Formik and YUP

Appright Software Solutions Pvt. Ltd., Bangalore, India

Jul 2021 - Nov 2022

Associate Software Engineer

- Developed secure REST APIs with Django, OAuth 2.0, and JWT, reducing **unauthorized access issues by 20%**
- Improved **frontend performance by 15%** using React + Redux, optimizing render logic and component structure
- Boosted **backend response time by 20%** through Django ORM optimization and database indexing

Projects

Uniswap-V2

Apr 2025

Built a decentralized token swap platform and analytics dashboard featuring wallet connection, token selection, swap execution, liquidity visualization, and price distribution charts.

- Built using **Next.js, TypeScript, Tailwind CSS, ethers.js, Viem, and Chart.js**, and deployed on **Vercel** and **Tenderly**.
- executing token swaps, visualizing liquidity ($x*y=k$) curves, and analyzing historical swap price distributions, showcasing decentralized trading workflows.

NexTap – NFC Wallet System

Dec 2024

Built a decentralized wallet system using **NFC cards** (Husky Card) and **QR codes** for login, wallet creation, and transaction approval for Web Design and UX Engineering Final project.

- Built using **React, TypeScript, Redux, and Tailwind CSS**.
- Demoed live using NFC-enabled devices, showcasing app-less, low-cost crypto transaction workflows.

Emergency Alert App

Dec 2024

Created a cross-platform safety app that sends **location-based SOS alerts** via **SMS and email**, triggered via button (desktop) or motion (mobile) for Application Engineering and Development Final project.

- Developed using **Java (Swing)** and **Twilio API** for real-time communications.
- Combined geolocation and gesture detection for adaptive emergency response.