

NARAYAN SONI

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WORK EXPERIENCE

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| Full Stack Developer | University of Houston | <i>Houston, TX Aug 2023 – Present</i> |
| <ul style="list-style-type: none">• Led the complete redesign of the departmental website on Cascade CMS, implementing SEO best practices that boosted organic traffic by over 30%.• Developed and trained a YOLOv8 object detection model for TxDOT signage, achieving 98% mean average precision on 50K+ Mapillary image dataset.• Integrated Google Street View API to enhance GIS capabilities, successfully identifying and mapping 10K+ undocumented traffic signs across Texas.• Automated geospatial validation using coordinate-based logic, cutting manual verification workload by over 90%.• Collaborated with faculty researchers to deploy AI-based GIS tools that improved transportation data coverage by 40%.• Delivered \$2M federally funded solutions, meeting all compliance standards and stakeholder expectations. | | |
| Software Engineer | MentoringTime | <i>Houston, TX May 2022 – Aug 2023</i> |
| <ul style="list-style-type: none">• Designed and developed a scalable mentorship platform from scratch using React, Node.js, and MongoDB, supporting over 5,000 monthly active users.• Engineered reusable chat-based UI workflows with React Query and Context API, improving onboarding and engagement time by 40%.• Integrated role-specific dashboards with REST APIs and secure authentication, reducing manual coordination between mentors and mentees by 60%.• Collaborated with data scientists to embed AI-driven mentor recommendations, increasing relevant matches and session bookings by 35%.• Implemented CI/CD pipelines with Git and Docker, reducing deployment time from hours to minutes and enabling faster feature releases. | | |
| Software Engineer | Phoenix Global | <i>Hyderabad, INDIA Mar 2021 – Apr 2022</i> |
| <ul style="list-style-type: none">• Developed and maintained full stack applications using React and FastAPI (Python), improving feature rollout speed by 35% through modular service design.• Integrated 8+ external REST APIs and implemented robust error handling and retry logic, reducing customer-facing issues by over 30%.• Designed responsive and accessible UI components using Tailwind CSS and WAI-ARIA guidelines, boosting mobile user satisfaction scores by 25%.• Automated deployment pipelines using GitLab CI/CD and Azure Static Web Apps, accelerating development-to-release cycle by over 60%.• Led performance optimization, cutting average page load time by 45% & significantly improving Core Web Vitals metrics.• Participated in agile ceremonies, conducted 40+ peer code reviews, and contributed to a 70% reduction in production bugs within two sprints. | | |

SKILLS

Languages	JavaScript/TypeScript (ES6+), Python, Java (Spring Boot), SQL
Web & Frameworks	React, Node.js, FastAPI, Express.js, HTML5, CSS3, Tailwind CSS, Chakra UI
DevOps	Git, GitLab CI/CD, Docker, Azure App Services, Azure Static Web Apps
Testing	JUnit, Postman, Unit/Integration Testing, TDD
Design	RESTful APIs, component-based architecture, microservices, responsive UI, accessibility (WCAG)
AI/ML	YOLOv8, AI-powered UIs, OpenAI APIs, recommendation systems
Methodologies	Agile/Scrum, sprint planning, code reviews, performance tuning, security best practices

EDUCATION

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| M.S. Computer Science , University of Houston, Houston, TX | GPA: 4.0/4.0 |
| Coursework: Distributed Systems • Advanced Algorithms • Computer Architecture • Data Visualization | |
| B.Tech Computer Science , GITAM University, Visakhapatnam, India | GPA: 8.59/10 |
| Coursework: Data Structures & Algorithms • Database Management Systems • Software Engineering | |

PROJECTS

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| AI Chat Interface with File Upload (React & FastAPI) | <i>Jan 2024 – Mar 2024</i> |
| <ul style="list-style-type: none">• Developed a file-enabled chat UI in React with Zustand & React Query, connected to FastAPI & OpenAI backend services.• Reduced response lag by 40% using async orchestration, semantic caching, and modular API integration. | |
| Pricing Recommendation Dashboard (React & Tailwind) | <i>Oct 2023 – Dec 2023</i> |
| <ul style="list-style-type: none">• Built a responsive dashboard in React showing dynamic pricing & product suggestions using REST APIs.• Deployed via GitLab CI/CD to Azure Static Web Apps—reduced dev-to-release time by 60% with automated workflows. | |