

Parth Tawde

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EXPERIENCE

Software Engineer

Trust Your Supplier

August 2024 – June 2025

Chicago, IL

- Developed a modular React UI dashboard with buyer-specific state management and an interactive data table displaying 2,582 suppliers along with their ranking and addresses based on their specific countries
- Featured advanced filtering, pagination and navigation to streamline resolution workflows and personalized portal experiences for the product management team
- Built and optimized queries in MongoDB to cut query latency from 60s to 3s for high-volume ML data pipelines
- Contributed to Agile development practices via daily stand-ups, sprint planning, and cross-functional collaboration, resulting in a 15% reduction in project delivery timelines
- Collaborated on a CI/CD pipeline by working across feature branches, resolving merge conflicts, and stable builds
- Developed modular backend services in NestJS and TypeScript to streamline supplier resolution workflows, including address splitting, mapping suppliers to a single address and title, and leveraging the readyForPreload flag to distinguish resolved from unresolved suppliers

Client Support Specialist

August 2023 – May 2024

Learning Technology Solutions, University Of Illinois Chicago

Chicago, IL

- Partnered with faculty to build and enhance digital courses using Blackboard, Echo360, and Panopto, integrating custom Java-based elements to improve content delivery and user engagement
- Supported the institutional transition from Blackboard to Canvas by integrating AI-powered course design tools and delivering tailored guidance to non-technical stakeholders
- Leveraged TensorFlow, scikit-learn, and Azure AI to develop proof-of-concept tools that enhanced content recommendation accuracy and reduced manual effort in digital course creation
- Utilized the TeamDynamix (TDX) ticketing system to manage service requests and ensure timely support
- Resolved course setup issues/error conflicts by clearly communicating solutions and aligning technical steps with faculty, student and Teaching Assistant's needs

Software Engineering Intern

May 2021 – August 2021

QA-Mentor Software Testing Expert Company

Mumbai, MH, India

- Participated in Agile sprints to enhance the CertCentral platform, conducting integration testing, resolving high-impact bugs, and applying problem-solving skills in collaboration with developers to maintain web performance and platform stability
- Collaborated on optimization algorithms (linear programming) to improve customer-facing analytics
- Redesigned UI templates with a user-centric approach and integrated them into the CI/CD workflow, improving navigation efficiency by 30% and boosting user engagement by 25%

PROJECTS

Language Omegle - Video Calling Application

August 2023 – December 2023

- Built a user-friendly video calling interface using React, Twilio and Socket.IO for real-time communication
- Integrated AI-powered tools like Azure Speech-to-Text and Azure Translate for seamless multilingual interactions

The Maze Game

January 2021 – February 2021

- Integrated an AI heuristics algorithm enabling users to play against a dynamic AI opponent, offering an engaging single-player experience as well as against the computer
- Spearheaded design discussions with peers during A/B testing phases, leading to actionable insights that improved user engagement metrics by 25% while optimizing overall platform performance based on real feedback

EDUCATION

University Of Illinois Chicago

Chicago, IL

Master of Science in Computer Science

Aug 2023 – May 2024

TECHNICAL SKILLS

Languages: Java, SpringBoot, Python, C++, C, PostgreSQL

Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

AI/ML: scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Azure AI, Generative AI (LLMs)