Parth Tawde

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WORK EXPERIENCE

Nachway   Chicago, IL
AI Software Engineer - Optimization   *July 2025 – October 2025*
- Developed and deployed full-stack AI applications using JavaScript/TypeScript, Node.js, React, and Python, serving 10,000+ end users with intelligent automation features that improved user engagement and operational efficiency
- Built scalable AI solutions integrating OpenAI GPT-4 and LangChain frameworks, reducing manual data processing workflows by 60% and enabling automated decision-making for business operations
- Optimized AI agent performance through systematic prompt engineering and A/B testing of model configurations, analyzing performance metrics via monitoring dashboards to reduce average response latency by 40% and improve accuracy by 15%
- Engineered custom AI agents for automating data extraction, report generation, and customer support workflows using LangChain and vector databases, saving 25+ hours per week in manual processing and improving accuracy

Trust Your Supplier   Chicago, IL
Software Engineer Intern - Full Stack   *August 2024 – June 2025*
- Implemented comprehensive query optimization and caching strategies within Node.js APIs, maintaining sub-200ms response times despite 300% user growth without relying on the senior engineers
- Engineered 40+ scalable RESTful APIs leveraging Node.js, PostgreSQL, and MongoDB with comprehensive authentication and authorization mechanisms to support 300% user growth to maintain sub-200ms response time
- Collaborated with cross-functional teams including product managers, designers, and QA engineers across the full technology stack from React frontend to AWS infrastructure, successfully delivering 12+ high-quality product features quarterly in an Agile environment
- Spearheaded the automation of 3 key stages in the CI/CD pipeline by developing Python scripts, reducing manual intervention in the deployment process by 30% weekly
- Addressed performance bottlenecks and usability issues in data-intensive applications, leading to findings to fix the three biggest causes of crashes, improving the overall user experience

Learning Technology Solutions, University Of Illinois Chicago   Chicago, IL
Client Support Specialist - Graduate Assistant   *August 2023 – May 2024*
- Analyzed business requirements for full-stack applications, translating needs into technical solutions that reduced manual processing by 40% through process optimization and automation
- Integrated AI enhancement with Ally in Blackboard, automating course material generation using Python scripts, resulting in 30% faster course building
- Facilitated requirements gathering sessions and UAT with an 8-member team, ensuring smooth communication with course faculty and reducing course disruptions

UNIVERSITY PROJECTS

Memories - Full-Stack Social Media Platform (MERN Stack)   January 2023 – April 2023
- Built a full-stack social media application using React, Redux, Node.js, Express, and MongoDB, serving 500+ registered users who created 2,000+ memories; achieved 5,000+ page views across 1,200+ sessions
- Designed RESTful APIs following controller-service-repository architecture with proper HTTP methods and status codes, integrating event-driven updates using dispatcher patterns
- Monitored engagement metrics to identify optimization opportunities and improve user retention by 30%

EDUCATION

University Of Illinois Chicago   Chicago, IL
Bachelor of Science & Master of Science in Computer Science   *August 2019 – May 2024*
- **Relevant Coursework:** Data Structures & Algorithms, Database Systems, Software Engineering, Operating Systems, Machine Learning, Object-Oriented Programming, Web Development, Cloud Computing

TECHNICAL SKILLS

Programming Languages: React, Node.js, NestJS, Python, Java, JavaScript, SQL, Go
Database Systems: PostgreSQL, SQL Server, MySQL, MongoDB, Database Optimization, Query Performance
Data Engineering: ETL Pipelines, Data Modeling, Data Warehousing, Data Architecture, Data Quality & Validation
Cloud Platforms: AWS (S3, Redshift), Azure, Google Cloud Platform, Cloud-based Data Solutions