

# Sarthak Patipati

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## EDUCATION

**University of Illinois at Chicago**  
*Bachelor of Science in Computer Science*

Chicago, IL  
Dec. 2023

## TECHNICAL SKILLS

**Languages:** C#, Python, SQL, TypeScript, JavaScript, Java  
**Frameworks:** .NET, ASP.NET Core, Entity Framework, LINQ  
**Libraries:** Angular, React, Remix, vLLM  
**Software:** Git, GitHub, Visual Studio, Azure, Docker, Postman  
**Databases:** Microsoft SQL Server  
**Operating Systems:** Windows, Linux, macOS

## EXPERIENCE

### Software Developer

Sep. 2024 – Present

*Clarity Ventures, Inc.*

*Austin, TX*

- Built and maintained backend features in C#, ASP.NET, and SQL Server for 15+ client e-commerce platforms, reducing critical bugs by 35% through reusable code and consistent testing
- Developed over 50 RESTful services and backend workflows using Entity Framework, integrated with React frontends, enabling faster feature rollouts and reducing third-party integration time by 40%
- Improved the company's shared .NET codebase by optimizing common components, cutting setup time for new projects by 30% and reducing developer onboarding effort
- Created a new C# payment connector from scratch for POS terminals, speeding up transaction processing by 40% and reducing payment failures
- Built a Python data formatter using local LLMs that increased internal chatbot accuracy by 90%, enhancing AI performance and automated testing across multiple projects

### Developer Assistant

Jun. 2022 – Dec. 2023

*Complex and Sustainable Urban Networks Laboratory*

*Chicago, IL*

- Assisted in developing a BERT-GRU sentiment analysis model with 87% training accuracy and 80% test accuracy to classify sentiments on telecommuting tweets during COVID-19, using Python, TensorFlow, and PyTorch
- Analyzed 50,000+ geo-tagged tweets, correlating sentiment trends with COVID-19 milestones using Python libraries like pandas, NumPy, and scikit-learn
- Examined energy consumption with Python, GeoPandas, and SQL, building predictive models with XGBoost and RandomForest and visualizing data with Matplotlib and Seaborn

## PROJECTS

**Skinet** | .NET, C#, Angular, ASP.NET Identity, Tailwind, Redis, Stripe, Azure

Feb. 2025

- Developed a winter gear e-commerce platform with .NET 8 for backend services and Angular 18 for client-side logic
- Implemented ASP.NET Identity for authentication, Redis for basket caching, and Stripe for 3D-secure payments
- Deployed to Azure, built a UI with Angular Material and Tailwind, and leveraged lazy-loaded for routing

**SpaceFlow** | Java, TypeScript, JavaScript, Angular, Spring Boot, PostgreSQL, Postman, Git, Maven

Apr. 2024

- Built a work management platform, integrating announcements, teams, projects, and user statistics
- Implemented CRUD operations and role-based authentication with Spring Boot to secure data access for 15+ users
- Designed a PostgreSQL database for information storage, with optimized schema and indexing for data retrieval

**Who's Who** | TypeScript, Angular, Spotify API, OAuth, Figma, Git, VSCode

Mar. 2024

- Created a music guessing game, using the Spotify API to fetch data for 50+ songs and snippets
- Developed 100+ questions, real-time score tracking, leaderboard, and custom genres and game modes
- Produced a minimum viable product with 5+ core features, ensuring a responsive, mobile-first interface

**Dev Duel** | TypeScript, JavaScript, Node.js, Express, Angular, GitHub API, Axios, Git, VSCode

Mar. 2024

- Visualized 500+ GitHub profiles in a web app, using GitHub's API to fetch user information
- Modified endpoints to transform GitHub data, enabling custom profile titles and detailed statistics
- Enabled user-driven profile search and comparison using Axios, with error handling integrated through Joi