

# 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:** Java, JavaScript, C#, SQL, HTML5, CSS3, Python, TypeScript

**Frameworks:** .NET, Angular, Spring Boot, Node.js, Express.js, Next.js

**Libraries:** React, Redux, jQuery, Maven, npm, JPA, JDBC, webpack, Babel

**Software:** Git, GitHub, Docker, Kubernetes, cmdr, pgAdmin, Postman

**Databases:** PostgreSQL, MongoDB

**Operating Systems:** macOS, Windows

## EXPERIENCE

**FastTrack Developer**

Feb. 2024 – May 2024

*Cook Systems*

*Memphis, TN*

- Developed 3+ web applications using Java, TypeScript, Angular, and JavaScript frameworks, enhancing user experience and ensuring operational efficiency and security through modern front-end and back-end technologies
- Implemented RESTful services with a scalable and data-centric architecture using Spring MVC and Spring Boot, improving application performance and reliability by designing and maintaining efficient APIs
- Stored and organized data with PostgreSQL, ensuring data integrity and optimizing performance by managing complex queries and large datasets, designing schemas and indexing strategies to support CRUD operations
- Utilized Git for version control and collaboration, and conducted rigorous testing of RESTful APIs with Postman, ensuring reliability, performance, and security, enhancing overall system stability and user satisfaction

**Programmer Analyst**

Jun. 2022 – Dec. 2023

*Complex and Sustainable Urban Networks Laboratory*

*Chicago, IL*

- Developed a BERT-GRU sentiment analysis model with 87% training accuracy and 80% test accuracy to classify sentiments on telecommuting tweets during the COVID-19 pandemic, utilizing Python, TensorFlow, and PyTorch
- Implemented time series models using Twitter sentiment and Census data, significantly improving telecommuting rate predictions and reliability of the forecasts at national and state levels with Statsmodels and Darts
- Analyzed 50,000 geo-tagged tweets via the Twitter API, correlating sentiment trends with COVID-19 milestones providing insights into telecommuting behaviors using Python libraries such as pandas, NumPy, and scikit-learn
- Generated visual models by leading a project analyzing energy consumption use in 30,000+ residential accounts

## PROJECTS

**Nearby** | *Swift, SwiftUI, Gemini API, Core Location, MapKit, Git, Xcode*

May 2024

- Developed an AI-driven iOS app, via Swift and SwiftUI presenting historical facts based on real-time location data
- Enhanced data retrieval with Core Location and MapKit, handling 100+ location points ensuring content accuracy
- Converted API data into specific JSON format and integrated a map feature for navigation to historical locations

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

Apr. 2024

- Built a work management platform for 3+ companies, integrating announcements, teams, projects, and user stats
- Enhanced security with authentication methods for 15+ users, protecting critical data across multiple access levels
- Designed a PostgreSQL database for reliable information storage, ensuring smooth operation and data consistency

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

Mar. 2024

- Elevated user experience with an Angular-based music game, enabling quick access to 50+ songs via Spotify's API
- Ensured versatility and peak performance with Node.js, enabling diverse gameplay modes and 10+ genre selections
- Produced a scalable MVP highlighting 5+ core features, using Figma for design, poised for easy future expansions

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

Mar. 2024

- Visualized 500+ GitHub profiles in an Angular-based app, leveraging GitHub's API for comprehensive user insights
- Elevated profile analytics by creating 3+ custom endpoints via Node.js using Express, with tailored titles and stats
- Facilitated user-driven profile search and comparison with a web client using Joi for error handling and validation