

# Sarthak Patipati

(312) 989-5093 | [pusarthak@gmail.com](mailto:pusarthak@gmail.com) | [linkedin.com/in/sarthak-p](https://www.linkedin.com/in/sarthak-p) | [github.com/sarthak-p](https://github.com/sarthak-p) | Springfield, IL

## EDUCATION

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

Chicago, IL  
Dec. 2023

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, TypeScript, Python, HTML5, CSS3

**Frameworks:** React, Redux, Angular, Node.js, Spring, Spring Boot, jQuery, Maven, npm, JPA, JDBC, webpack, Babel

**Software:** VSCode, Git, GitHub, cmd, pgAdmin, Postman

**Databases:** PostgreSQL

**Operating Systems:** macOS, Windows

## EXPERIENCE

### FastTrack Developer

Feb. 2024 – Present

*Cook Systems*

*Memphis, TN*

- Enhanced RESTful backends and data operations in Java using Spring, Spring Boot, JPA, and PostgreSQL
- Streamlined database and API testing with PGAdmin and Postman for improved user request and data handling
- Mastered JDBC, JPA, and Hibernate for ORM, MVC design patterns, and dependency injection with Spring's IoC

### Research Assistant

June 2022 – Dec. 2023

*Complex and Sustainable Urban Networks Laboratory*

*Chicago, IL*

- Yielded valuable insights by leading an energy consumption project studying energy use in residential areas
- Enhanced energy consumption planning by analyzing urban energy predictors with machine learning techniques
- Improved sentiment analysis accuracy for social media events, by accurately labeling training datasets

### Engineering Intern

June 2022 – Aug. 2022

*Illinois Department of Transportation*

*Springfield, IL*

- Enabled operational efficiency across company yards through inspections, leading to optimal resource utilization
- Resolved traffic issues at four intersections by implementing solutions that improved traffic flow and safety
- Developed engineering plans and interpreted blueprints with a team of diverse engineers for public-sector projects

## PROJECTS

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

Mar. 2024

- Boosted interaction with an Angular music game, using Spotify's API and OAuth for secure, instant song access
- Crafted a flexible architecture for diverse playing modes, enriching the user experience with dynamic gameplay
- Produced a scalable MVP focusing on core features, utilizing Figma for design, poised for easy future expansions

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

Mar. 2024

- Enabled aggregation, transformation, and display of GitHub user data by engineering a full-stack web application
- Improved analytics for user profiles and repositories by crafting API endpoints with custom titles and statistics
- Facilitated user-driven profile search and comparison with a web client incorporating error handling and validation

**X API** | *Java, Spring Boot, JPA, PostgreSQL, pgAdmin, Postman, Git, VSCode, Maven*

Feb. 2024

- Implemented seamless CRUD operations on tweet-like content by crafting a robust RESTful API for social media
- Ensured smooth and efficient data management by building a well-structured and highly scalable database schema
- Boosted API reliability through rigorous testing, carefully validating HTTP requests for enhanced performance

**Sensible** | *Java, Android Studio, Google Services, XML, Git, VSCode*

Dec. 2023

- Addressed busy students' organizational challenges by designing an app with chat, calendar, and notes features
- Enhanced task management with user-feedback-driven refinements and iterative design, improving user experience
- Aided accessibility and engagement via smooth navigation and intuitive design by leading mobile-first architecture

**Fitness and Nutrition Buddy** | *Java, SQL, Git, VSCode, Maven*

Jan. 2023

- Delivered a feature-rich nutrition app, featuring goal setting, meal planning, restaurant search, and intake tracking
- Executed comprehensive testing for key functionalities, ensuring seamless user experience and interface accuracy
- Strategized solutions for real-time updates, proposing features for restaurant self-editing, and future enhancements