

Sarthak Patipati

(312) 989-5093 | pusarthak@gmail.com | [linkedin.com/in/sarthak-p](https://www.linkedin.com/in/sarthak-p) | 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, Python, TypeScript, Angular, Spring, Spring Boot, HTML5, CSS3, JDBC, Jackson, JPA, jQuery, Node.js, webpack, Babel, Maven, npm, React, Redux
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

Dev Duel | TypeScript, JavaScript, Node.js, Express, Angular, GitHub API

Mar. 2024

- Engineered a full-stack application facilitating aggregation, transformation, and display of GitHub user data
- Established API endpoints for user profile and repository analytics, with custom title assignments and statistics
- Built a web client for user-driven profile exploration and comparison, embedding error handling and validation

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

Feb. 2024

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

Sensible | Java, Android Studio, Google Services, XML

Dec. 2023

- Designed a group organization app with chat, calendar, and notes features to address challenges for busy students
- Improved efficiency with iterative design, refining features based on user feedback for better task management
- Led mobile-first architecture, aiding accessibility and engagement via streamlined navigation and intuitive design

Endangered Species Analysis | Python, pandas, scikit-learn, matplotlib, seaborn, folium

Nov. 2023

- Aggregated 150,000+ data points into a mammal species dataset using ETL from IUCN Red List and Zenodo
- Developed a data model for mammal endangerment analysis with 40+ ecological attributes using Python and SQL
- Enhanced research capabilities in mammal conservation studies through data integration and advanced analytics

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

Jan. 2023

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