Sarthak Patipati

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EDUCATION

University of Illinois at Chicago   Chicago, IL
Bachelor of Science in Computer Science   *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, cmder, 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
- 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, 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 crafting a well-structured and scalable database schema
- Boosted API reliability through rigorous testing, carefully validating HTTP requests for enhanced performance

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

Endangered Species Analysis | *Python, pandas, scikit-learn, matplotlib, seaborn, folium*   Nov. 2023
- Consolidated 150,000+ data points from IUCN Red List and Zenodo into a mammal species dataset using ETL
- Facilitated advanced analysis of mammal endangerment by developing a data model with 40+ ecological attributes
- Empowered 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