

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, TypeScript, Python, HTML5, CSS3
Frameworks: Angular, Spring, Spring Boot, Node.js, Express.js
Libraries: React, Redux, jQuery, Maven, npm, JPA, JDBC, webpack, Babel
Software: VSCode, Git, GitHub, cmd, pgAdmin, Postman
Databases: PostgreSQL
Operating Systems: macOS, Windows

EXPERIENCE

- FastTrack Developer**
Cook Systems
Feb. 2024 – Present
Memphis, TN
 - Built 4+ full-stack apps with Angular, Spring Boot, and PostgreSQL, enhancing operational efficiency and security
 - Designed 5+ RESTful services, focused on data-centric and scalable architecture, meeting varied application needs
 - Optimized API and database testing through pgAdmin and Postman, elevating data integrity and user experience
- Research Assistant**
Complex and Sustainable Urban Networks Laboratory
June 2022 – Dec. 2023
Chicago, IL
 - Yielded insights by leading a key energy consumption project studying energy use in 30,000+ residential accounts
 - Explored urban planning by analyzing 40+ urban energy predictors in 50+ land-use types using machine learning
 - Augmented sentiment analysis precision for social media events from 63% to 84% through training dataset labeling

PROJECTS

- 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 a 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
- X API** | *Java, Spring Boot, JPA, PostgreSQL, pgAdmin, Postman, Git, VSCode, Maven*
Feb. 2024
 - Crafted a REST API with 20+ endpoints for social media content, using Spring Boot and JPA for request handling
 - Ensured efficient data management by building a well-structured and highly scalable PostgreSQL database schema
 - Increased API reliability via rigorous Postman testing, validating 330+ HTTP requests for enhanced performance
- Fitness and Nutrition Buddy** | *Java, SQL, Git, VSCode, Maven*
Jan. 2023
 - Delivered a Java health app with 4 core features: goal setting, meal planning, restaurant search, and diet tracking
 - Crafted 60+ SQL data points for rigorous testing, validating app functionality and boosting user interface accuracy
 - Formulated iterative development for 5+ months, emphasizing real-time updates, self-editing features, and CI/CD

PUBLICATIONS

[1] J. Acosta-Sequeda, M. Mohammadi, S. **Patipati**, A. Mohammadian, and S. Derrible. "Estimating Telecommuting Rates in the US Using Twitter Sentiment Analysis". In: (Feb. 2024). DOI: 10.21203/rs.3.rs-3879832/v1.