

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, cmdr, pgAdmin, Postman
Databases: PostgreSQL
Operating Systems: macOS, Windows

EXPERIENCE

FastTrack Developer
Cook Systems

Feb. 2024 – Present
Memphis, TN

- Built full-stack solutions with Angular, Spring Boot, and PostgreSQL, enabling operational efficiency and security
- Developed RESTful services, focused on data handling and scalable architecture, meeting diverse application needs
- Optimized API and database testing through pgAdmin and Postman, elevating data integrity and user experience

Research Assistant

June 2022 – Dec. 2023

Complex and Sustainable Urban Networks Laboratory

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
- Improved sentiment analysis accuracy for social media events by 23% through meticulous 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 optimal performance with Node.js, facilitating diverse gameplay modes and genre selection
- Produced a scalable MVP focused on core features, leveraging 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 crafting 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 Java-based nutrition app, featuring goal setting, meal planning, restaurant searching, and intake tracking
- Crafted comprehensive datasets for rigorous testing, validating app functionality and enhancing interface accuracy
- Strategized solutions for real-time updates, proposing features for restaurant self-editing, and future enhancements

PUBLICATIONS

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