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, C#, SQL, HTML5, CSS3, Python, TypeScript
Frameworks: .NET, Angular, Spring Boot, Node.js, Express.js, Next.js
Libraries: React, Redux, jQuery, Maven, npm, JPA, JDBC, webpack, Babel
Software: Git, GitHub, Docker, Kubernetes, cmder, pgAdmin, Postman
Databases: PostgreSQL, MongoDB
Operating Systems: macOS, Windows

EXPERIENCE

FastTrack Developer — Feb. 2024 – May 2024
Cook Systems — *Memphis, TN*
- Developed 3+ web applications using Java, TypeScript, Angular, and JavaScript frameworks, enhancing user experience and ensuring operational efficiency and security through modern front-end and back-end technologies
- Implemented RESTful services with a scalable and data-centric architecture using Spring MVC and Spring Boot, improving application performance and reliability by designing and maintaining efficient APIs
- Stored and organized data with PostgreSQL, ensuring data integrity and optimizing performance by managing complex queries and large datasets, designing schemas and indexing strategies to support CRUD operations
- Utilized Git for version control and collaboration, and conducted rigorous testing of RESTful APIs with Postman, ensuring overall system stability and data consistency

Programmer Analyst — Jun. 2022 – Dec. 2023
Complex and Sustainable Urban Networks Laboratory — *Chicago, IL*
- Developed a BERT-GRU sentiment analysis model with 87% training accuracy and 80% test accuracy to classify sentiments on telecommuting tweets during the COVID-19 pandemic, utilizing Python, TensorFlow, and PyTorch
- Implemented time series models using Twitter sentiment and Census data, significantly improving telecommuting rate predictions and reliability of the forecasts at national and state levels with Statsmodels and Darts
- Analyzed 50,000 geo-tagged tweets via the Twitter API, correlating sentiment trends with COVID-19 milestones providing insights into telecommuting behaviors using Python libraries such as pandas, NumPy, and scikit-learn
- Generated visual models by leading a project analyzing energy consumption use in 30,000+ residential accounts

PROJECTS

Cruvix | *.NET, Next.js, RabbitMQ, gRPC, Docker, Kubernetes, IdentityServer, SignalR* — Jun. 2024
- Built a microservices-based car auction application using .NET for backend services and Next.js for the client-side
- Implemented service-to-service communication with RabbitMQ and gRPC, enhancing the scalability and efficiency
- Dockerized the application for easy deployment and consistent environment setup across various operating systems

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