ABHISHEK SINGH

LinkedIn | □ 219-455-5817 | ⊕ Portfolio | M sing1290@purdue.edu | ○ GitHub

Skills _____

- Java | C# | JavaScript | Python | C++ | C | MongoDB | SQL | Cassandra | Node | Express | React | Next | Recoil | Spring | NoSQL | Git
- Azure | AWS | Kubernetes | CI/CD | Docker | EIP | OpenTelemetry | Kafka | Camel | Freemarker | Google Pub/Sub | Markdoc | ML | GenAl
- Microservices | Distributed Systems | Frontend | Backend | Full-Stack | English, Hindi All professional proficiency or above

Experience .

Software Engineer Intern

Scope Retail

Bentonville, AR, USA

08/2024 - current

- Improved system interoperability and efficiency, achieving seamless integration of 500+ systems across 200+ use cases by implementing 30+ Enterprise Integration Patterns using Apache Camel, Freemarker, and Google Cloud technologies.
- Enhanced operational insights by deploying OpenTelemetry to instrument 50+ Dockerized microservices, integrating Loki, Tempo, and Grafana for advanced log and trace visualization.
- Boosted user comprehension by documenting product guides and demos with Markdoc, Next.js, and TailwindUI.
- Streamlined warehouse management by developing cross-platform apps using React and React Native, ensuring real-time data access.

Data Scientist and Software Developer

Purdue University

Hammond, IN, USA 01/2024 - 05/2024

- Proposed deployment of a Gunshot Detection System for 150+ buildings across 4 campuses, designing the software using React.js, Python, Express.js, and SQL, thereby enhancing campus safety initiatives.
- Improved risk analysis of mass shootings by developing models analyzing 20+ data features, leveraging data mining and machine learning algorithms to derive actionable insights.
- Increased railway safety by building a YOLOv8 model that classified rail defects in real-time with 95% accuracy, trained on 3,000+ images, and received commendation from a major railway company.

Associate Software Engineer

Scopesys Innovation

Pune, MH, India 11/2022 - 08/2023

- Processed \$10M+ monthly transactions by building COSMOS, an Order Management System, using Java, Spring Boot, SQL, and Kafka to optimize order fulfillment workflows.
- · Boosted warehouse efficiency by 40% through UNITI, an inventory management system designed with Cassandra, Spring JPA, and RestController, revolutionizing stock visibility across clients.
- Minimized downtimes by 30% via code enhancements and scalability optimization with Spring Cloud, Azure, Docker, and Kubernetes, ensuring robust software performance.

Education ___

Master of Science

Purdue University Northwest

Hammond, IN, USA 08/2023 - 05/2025

• Major in Computer Science - GPA: 3.86

Projects _

- SharePrompt: Developed with Next.js, MongoDB, and TailwindCSS, this sleek Al prompt-sharing web app features a modern glassmorphism design, allows users to manage AI prompts, access profiles, and utilize quick links to popular AI apps. With features like "Copy to Clipboard," tag-based search, and secure Google login using NextAuth, it ensures a seamless user experience on any device.
- SentinelSafe: Built using React.js and Recoil. It showcases a risk assessment model to enhance school safety, utilising a dataset of 50 schools impacted by mass shootings, incorporating over 300 satellite images and 500 data points. Trained on CNN and deep neural networks, the model assesses mass shooting risks in schools with 85% accuracy, providing proactive threat mitigation measures.

Mentorship _

- Instructed 100+ undergraduate students in Java programming, fostering an understanding of core concepts and best practices.
- · Conducted workshops on version control using Git, empowering students with essential collaborative software development skills.

Others

- Certified as an Oracle Cloud Infrastructure 2024 Generative AI Professional
- Certified Java, Springboot and Hibernate Developer (By Hackerrank and Udemy)
- Achieved 88th global rank in a CodeChef coding competition