ABHIR MAHAJAN

Syracuse, NY-13210 | (315)800-8207 | abhirmhjn@gmail.com | LinkedIn | GitHub

EDUCATION

Syracuse University - College of Engineering & Computer Science, Syracuse, New York **August 2023 - May 2025**
Master of Science in Computer & Information Science

Dr. A.P.J. Abdul Kalam Technical University - Inderprastha Engineering College, India **August 2017 - July 2021**
Bachelor's in Computer Science

SKILLS

- **Programming Languages**: Java, Python, C, C++, C#, Kotlin, JavaScript, TypeScript, HTML, CSS.
- **Frameworks & Libraries:** Spring Boot, Junit, Node.js, Express.js, Angular, React.
- **Technologies:** AWS, REST APIs, Kafka, SaaS, Docker, Kubernetes, Microservices, System Design, CI/CD.
- **Databases:** MySQL, SQL Server, MongoDB, PostgreSQL, Redis.
- **Tools and Methodologies:** GitHub, Android Studio, Jira, Agile Development, Scrum, Jenkins.
- **Relevant Coursework:** Advanced Data Structures & Algorithms, Object Oriented Programming, Operating Systems, Database Management, Distributed Computing, Software Development Lifecycle, Artificial Intelligence.

EXPERIENCE

Volkswagen Group Technology Solutions - *Software Engineer,* **August 2021 - June 2023**
Maharashtra, India

- Engineered and deployed the 'International Tax Documents' portal using Angular, Java, Spring Boot, and MySQL, automating document submission, approval, and delegation workflows, decreasing manual effort, and achieving 70% client adoption.
- Led a large-scale data migration from 'IRIS' MySQL database to 'IRIS 2.0' database, normalizing 100+ complex schemas, ensuring 100% data integrity, and accomplishing a seamless transition with less than 1% downtime and zero data loss.
- Designed UI and REST APIs for 'IRIS' system, optimizing invoice creation, approval, and feedback workflows using Angular, Node.js, Express.js, and MongoDB, driving a 40% increase in user adoption and reducing manual processing time.
- Mentored 3 interns, improving onboarding efficiency and integration time by 50%, while conducting detailed code reviews, ensuring best coding practices, and improving system reliability.
- Implemented comprehensive logging architecture across Microservices, accelerating issue diagnosis time by 60%, boosting system reliability by 40%, and enhancing customer satisfaction through faster issue resolution.
- Earned prestigious 'Debutant' and 'Instapat' awards for problem-solving and innovative mindset that boosted customer engagement and increased IRIS project efficiency by 40%, demonstrating ability to drive project success.

Paytm - *Software Engineering Intern,* **February 2021 - July 2021**
Noida, India

- Enhanced Paytm's mobile app stability by identifying and resolving critical performance issues, resulting in a 25% reduction in post-release defects and a smoother user experience.
- Automated and optimized testing processes using Java, Selenium, and Appium, executing 1,000+ test cases across Android and iOS in an Agile environment, diminishing bug detection time by 15% and strengthening overall app quality.

MAJOR PROJECTS

Melodify - Music Streaming Application **October 2024 - December 2024**

- Built an Android music streaming app in Kotlin, integrating a Java and Spring Boot backend with MySQL and AWS S3, featuring music search, playlists, offline downloads, and user-uploaded songs, tested with 100+ tracks.
- Optimized performance by implementing Redis caching for frequently accessed tracks and queue-based processing system using Kafka for music uploads, reducing API latency by 40% and supporting 200+ concurrent streams.
- Executed a hybrid storage solution combining MySQL for metadata and AWS S3 for audio files, enabling efficient content delivery with 99.9% availability and automatic scaling during peak usage periods.

SQL Query Generator **June 2024 - July 2024**

- Developed an AI-powered SQL Query Generator leveraging Python, LLAMA 2, Hugging Face, LangChain, and Transformers, attaining 70%+ accuracy in converting natural language queries into SQL statements.
- Simplified database accessibility for non-technical users by architecting a scalable NLP-based solution, cutting down manual query writing by 80% and ensuring robust handling of complex queries across diverse database environments.

Online Course Streaming **January 2024 – April 2024**

- Spearheaded a team of 4 in an Agile environment to develop a scalable online course streaming platform using Node.js, Express.js, Angular, and MySQL, offering students seamless access to a diverse range of courses.
- Optimized video streaming performance by implementing Redis caching for frequently accessed content, reducing buffering by 40%, enabling smooth and consistent video playback.
- Deployed real-time progress tracking and personalized recommendations for students, increasing course completion rates by 30% and improving user engagement through tailored learning experiences.