

ABHISHEK MILIND PATWARDHAN

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EDUCATION

- University of Georgia** Athens, GA
Master of Science, Computer Science; GPA : 3.95/4.0 August 2023 - August 2025
Relevant Coursework - Algorithms, Database Management Systems, Software Engineering, Distributed Systems.
- University of Mumbai** Mumbai, India
Bachelor of Engineering, Computer Engineering; GPA : 3.59/4.0 August 2019 - May 2023
Relevant Coursework - Data Structures & Algorithms, Operating System, OOP Methodology, Big Data Analytics.

TECHNICAL SKILLS

Languages: Java (Proficient), Python, C, C++, SQL
Distributed Systems & Cloud: Hadoop, Apache Kafka, AWS (EC2, S3, Lambda, RDS)
Databases: MySQL, Oracle, PostgreSQL, phpMyAdmin, Redis
Full-Stack: HTML, CSS, Bootstrap, JavaScript, React, PHP, Spring Boot, Django, Flask, Rest API, Hibernate,
DevOps, Testing & Version Control: CI/CD Pipelines, Git, JUnit, Postman, Maven, Gradle, GitHub, JMeter
Software Tools: Docker, Jira, IntelliJ IDEA, VS Code, Eclipse, PyCharm, Microsoft Excel, Power BI, Tableau

WORK EXPERIENCE

- University of Georgia** Athens, GA
Graduate Research Assistant March 2025 - Present
 - Increased user engagement by developing a responsive UI with HTML, CSS, JavaScript, and Django templates.
 - Developed a highly optimized training logic for the NCDM model by identifying and eliminating repeatedly fed misconception data, effectively reducing overall training time by 50% and memory usage by 30%.
 - Enhanced personalized learning by 30% integrating NCDM ML model, generating adaptive study recommendations.
- The Sparks Foundation** Remote, India
Software Developer Intern January 2022 - February 2022
 - Boosted API performance by refactoring & indexing 20+ SQL queries in Oracle, reducing query execution time by 40%.
 - Accelerated CI/CD deployment by integrating Docker and GitHub Actions, reducing release cycles by 35%.
 - Implemented Agile best practices using JIRA improving project tracking and reducing feature delivery time by 30%.

PROJECTS

- Backend Developer : StopByShow** August 2024 - December 2024
 - Designed a scalable movie booking system for 1 million users using Java, Spring Boot, and multi-layer architecture.
 - Implemented admin features including automated movie scheduling, discount coupon creation, real-time movie updates verification, and user review moderation to maintain content quality, processing over 100 reviews per week.
 - Built backend services with Spring Boot, achieving API response times under 50 milliseconds for efficient performance.
 - Performed load testing with JMeter, simulating 1,000 concurrent users and ensuring system stability under peak traffic.
- Distributed Hashing System** March 2024 - May 2024
 - Developed a distributed key-value system in Java using consistent hashing to manage 1024 keys across servers.
 - Built a 2-tier architecture for real-time communication with latency under 10ms, ensuring seamless server interactions.
 - Engineered a fault-tolerant naming system supporting core operations (insert, lookup, delete) with automatic data redistribution, ensuring data integrity and no loss during server failures.
- This-Abled: Aid to get paid** August 2022 - May 2023
 - Deployed an AI facial recognition with OpenCV, achieving 95% accuracy and cutting login time to 15 seconds.
 - Achieved a 98% accessibility compliance score by leading the development of a WCAG 2.1 Level AA-compliant web platform, implementing features like screen reader support, keyboard navigation, and high-contrast interfaces.
 - Integrated an e-learning platform with 20+ skill courses, also developed course tracking and progress analytics features.

PUBLICATION and CERTIFICATION

- Published paper "This-Abled: An aid to get Paid" in the International Journal of Research in Engineering Science.
- Certifications : SQL, Java, Python, Graph Theory and DSA