Shivam Singh

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EDUCATION

University of Central Florida, Orlando, FL   *Expected May 2025*
Master of Science, Computer Science (MS CS)   **4.00/4 GPA**

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C++, C
Frameworks: Spring, Spring boot, Spring MVC, React.js, Bootstrap, CSS, Node.js, JUnit, Mockito
Database: SQL, Oracle, MongoDB, Amazon DynamoDB

Cloud Technologies: Docker, Kubernetes, AWS
Other skills: HTML, CSS, REST, Selenium, Git, Maven, CI/CD, Jira, Confluence, Agile
Soft skills: Communication, Leadership, Mentorship

WORK EXPERIENCE

Front End Developer, FCSUA, United States   *May 2024 – Present*
- Leading a major website enhancement using HTML, CSS, MDB 5, and **JavaScript**, developing multiple new pages and boosting accessibility scores by over 80%.

Graduate Assistant, University of Central Florida (UCF), United States   *September 2023 – May 2024*
- Collaborated closely with distinguished faculty in leading lectures, lab sessions, and exams for advanced courses in **Database Systems** and **Computer Networks**, enhancing the learning experience for 250+ students combined.

Senior Software Engineer, LTIMindtree, India   *April 2022 – August 2023*
- Implemented **OAuth 2.0** for the Citi KYC application, enhancing security against cyber threats for 3,000+ active operations users and delivering a seamless Single Sign-On (SSO) experience.
- Streamlined operations by integrating **REST API**-based **microservice**s, cutting reliance on legacy data sources by ~25% and doubling the speed of compliance screening.
- Automated the 2-day onboarding regression suite using **Selenium** and the **Page Object Model** (POM), enhancing code maintainability and reusability, significantly streamlining the onboarding process for various critical clients.
- Oversaw project **releases and risk management**, providing daily updates to global senior management, and enabling strategic, informed decision-making.

Software Engineer, LTIMindtree, India   *June 2020 – March 2022*
- Led the development of a collaboration platform using **React.js**, **Java**, and **Spring Boot**, significantly enhancing **knowledge-sharing** across 3 LOBs and improving project collaboration.
- Overhauled KYC forms for over 20 EMEA & LATAM countries into **smart forms**, adapting to regulatory changes using React.js, Spring Boot, and Java, **enhancing user experience** and compliance.
- Resolved over **22 business-critical issues**, directly contributing to FY22 objectives, and boosting system reliability and stakeholder satisfaction.
- Enhanced code quality through thorough **code reviews**, **unit testing**, and comprehensive **API documentation**, achieving a **~10% reduction** in errors and substantially improving code maintainability.

Graduate Engineering Trainee, LTIMindtree, India   *June 2019 – June 2020*
- Spearheaded a 40% **modernization of legacy applications** by upgrading to Java 11, React.js, and **Spring 5**, significantly enhancing performance and scalability.
- In a training project, collaborated with a team of 3 to design and deploy a comprehensive web-based banking application using **Angular**, **Node.js**, and Oracle Database on **AWS EKS**, demonstrating strong teamwork and cloud deployment skills.

ACADEMIC PROJECTS

Multi–Level Cache Simulator. *Python*   *September 2023 – November 2023*
- Developed a configurable cache simulator, supporting 2-level **memory hierarchies**, two **replacement** and **write policies**, and two **inclusion properties**. Allowing users to evaluate performance impacts under numerous configurations.

Pollution Control System. *Node.js | Chart.js | Java | Spring | MongoDB*   *July 2018 – May 2019*
- Implemented an IoT-based system for real-time pollution monitoring, involving data collection and storage in MongoDB.
- Utilized **Chart.js** for interactive visualization of hotspots and recommended traffic diversions on a web interface.

Sudoku Solver. *OpenCV | Python*   *December 2018*
- Engineered a program that solves Sudoku puzzles from images, employing OpenCV for image processing and the **backtracking algorithm** for puzzle solving. Integrated **KNN** for **Optical Character Recognition** (OCR), showcasing advanced skills in algorithm implementation.

LEADERSHIP EXPERIENCE

SME, LTIMindtree, India   *January 2022 – August 2023*
- Progressed through two promotions to lead a team of 4 recent graduates in developing **proofs of concept** to improve operational efficiencies, and contributing to significant project advancements.

General Secretary, Students' Association, India   *August 2017 – July 2018*
- Led a 13-member team to integrate the electronics and computer science disciplines among students. Innovatively restructured the revenue model to achieve a **3x YoY revenue increase**, substantially boosting project funding.