

# SHISHIR KUMAR SINGH

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Location: Orlando, Florida.

## PROFESSIONAL EXPERIENCE

**Graduate Research Assistant** 05/2024 – 08/2024  
UCF Rosen College of Hospitality and Management Orlando, FL

- Led the development of a robust, scalable web application using **Java** and **Spring Boot**, increase in employee engagement.
  - Developed and optimized **REST APIs**, enabling efficient data exchange and reducing latency.
  - Integrated advanced filtering and querying mechanisms, enhancing user interaction by 45%.
  - Utilized **Spring Security** to implement secure authentication and authorization, ensuring data protection and compliance.
  - Applied debugging techniques to identify and resolve complex backend issues, improving system stability and performance.
- Skills Utilized: Java, Spring Boot, RESTful API, Postman, SQL, Spring JPA, Hibernate, Spring Security, Debugging, Docker, AWS.

**Graduate Research Assistant** 09/2023 – 05/2024  
Florida Solar Energy Center Cocoa, FL

- Redesigned and updated Building Energy code **compliance** software to meet 2023 Florida Building Commission standards using MS Access, SQLite, and C#.
  - Prepared and designed **databases** schema with over 250,000 records, achieving 99.5% data accuracy.
  - Produced 50+ monthly **reports** using **DevExpress** and tailored 30+ reports from energy modeling software with C#.
  - Collaborated with a 7-member team, meeting project milestones on or ahead of schedule 95% of the time.
  - Provided critical insights and data-driven recommendations, enhancing decision-making and improving data consistency.
- Skills Utilized: C#, SQLite, MS Access, DevExpress, Data Structure and Algorithms, Visual Studio

**Software Engineer** 08/2019 – 07/2021  
Sopra Steria Noida, India

- Developed and delivered 2 projects using **Java**, **Spring Boot**, and **AWS**, consistently meeting 100% requirements and completing ahead of deadlines.
  - Designed **REST APIs** with Spring Boot, utilizing **Spring Security** for secure **authentication** and **authorization**.
  - Leveraged **Docker** for containerization for consistent deployment environments and streamlined application deployment processes.
  - Integrated **Swagger** for API documentation, enhancing developer collaboration and API usability.
  - Utilized **JUnit** and **Mockito** for unit testing, contributing to robust and reliable application development.
  - Managed source code using **SVN**, maintaining 99.9% code integrity and achieving a 95%+ client satisfaction rate.
- Skills Utilized: Java, Spring Boot, Postman, AWS, Docker, JUnit, Mockito, Swagger, Spring Security, RESTful API Development, IntelliJ IDEA, SVN, Maven, Jira, Agile Methodologies.

## PROJECTS

### Check Seat Availability at MyUCF ([GitHub Project Link](#))

- Created a bot for the MyUCF portal that continuously checks course availability, notifying students via email when a seat is open and assisted over 30 students in enrolling in desired courses.

Skills Utilized: Java, Selenium, Java mail API.

### Leetcode Github Sync Chrome Extension ([GitHub Project Link](#))

- The project designed to seamlessly integrate and synchronize users' LeetCode solutions to a dedicated GitHub repository. This integration ensures an organized and systematic collection of coding solutions, enhancing portfolio showcasing.

Skills Utilized: Javascript, Python, JSON, Github OAuth, GraphQL, html, GIT, VS Code

### Spring Space Mobile Application ([GitHub Project Link](#))

- This project a cross-platform employee engagement **mobile app** with Flutter and Firebase, enhancing and creating impact on user interaction and data management through secure sync, utilizing Agile collaboration and Git.

Skills Utilized: Flutter, Dart, Firebase, Android Studio, VS Code, **Git**, Agile, Firestore

## EDUCATION

Master of Science in Computer Science, University of Central Florida, Orlando, FL 08/2024

Bachelor of Technology in Computer Science, AKTU, Lucknow, India 07/2019

## SKILLS

- Skills and Languages: Java, C#, Dart, HTML, CSS, XML, Data Structure and Algorithms, Debugging
- Frameworks: Spring, Spring Boot, Hibernate, Bootstrap, Material
- Databases: MySQL, SQLite, PostgreSQL
- Libraries and Other Tools: Maven, Gradle, Postman, Jira, SVN, Git, Docker, AWS, Agile, SoapUI, DevExpress, Firebase, Android Studio, VS Code, IntelliJ Idea, Visual Studio
- Soft Skill: Versatile, Enthusiastic, Leadership Qualities