

# Spandana Pasupuleti

+1 (980) 327-7156 | [spandanapasupuleti97@gmail.com](mailto:spandanapasupuleti97@gmail.com) | [LinkedIn](#) | [GitHub](#)

## EDUCATION

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### University of North Carolina at Charlotte

May 2023

- Masters of Science in Information Technology, GPA: 3.9/4

### Jawaharlal Nehru Technological University, India

May 2019

- Bachelor of Engineering in Petrochemical, GPA: 3.4/4

## SKILLS

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- Programming Languages: Java, JavaScript, Python, SQL
  - Databases: MySQL, MongoDB, PostgreSQL
  - Web Designing: HTML5, CSS
  - Cloud Technologies: AWS (S3, EC2, Dynamo DB, CLI, mirroring and RAID, SAN, NAS, HDFS, GFS, Lambda, Cloud Formation), GCP
  - Software Tools: Visual Studio Code, PostMan, IntelliJ IDEA, Eclipse, pgAdmin4, Git, Tableau, Jenkins
  - Frameworks and Libraries: JDBC, Node.js, ReactJS, Redux, ExpressJS, Spring MVC, Spring Boot, Spring Batch
  - Operating Systems: Linux, Unix
  - User Experience (UX) and Design: Figma, Lucid Chart, User-centered Design, Wireframing, Prototyping, Interaction, and Visual Design

## PROFESSIONAL EXPERIENCE

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### Systems Engineer | Tata Consultancy Services (TCS), India

August 2019 to December 2021

- Developed Spring Batch job in Java to automate the server's cleanup of old report directories
- Developed resilient Spring Boot batch application utilizing Spring Batch framework to process and import massive data sets into MySQL database efficiently
- Utilized Git for collaborative software development, ensuring smooth code integration and version control within an Agile methodology environment
- Created Excel reports to monitor user access information by fetching data using SQL queries
- Managed databases using SQL procedures, triggers, and other optimization techniques to increase efficiency
- Maintained centralized access management application and provided Level 2 production support
- Designed web page and established connection with backend database to enable CRUD operations
- Leveraged Software Development Life Cycle(SDLC) methodologies within an Agile methodology environment, with solid understanding of Scrum, Kanban boards, sprints, and user stories
- Tools Used: Spring Batch, Maven, Java, HTML5, CSS3, JavaScript, Spring JDBC, MySQL, PostgreSQL
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## ACADEMIC PROJECTS

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### Web Application Development:

- Designed a web application based on Model-View-Controller (MVC) architecture that allows users to perform user-related operations such as login/signup, trade items, etc.
- Designed and developed a web application utilizing the Model-View-Controller (MVC) architecture to enable user-related operations such as login/signup and trading items.

- Implemented CRUD operations using REST API routes and Node.js, ensuring seamless user interaction.
- Employed the Express.js framework and EJS templates to establish the MVC model, enhancing code organization and maintainability.
- Leveraged MongoDB to store user and application data, ensuring efficient and scalable data management.
- Implemented robust error handling mechanisms using flash messages, providing users with informative feedback.
- Addressed the stateless nature of HTTP by utilizing sessions and cookies to maintain user authentication and session persistence.

Tools Used: HTML, CSS, JavaScript, Node.js, Express Framework, MongoDB, EJS Templates, Postman

#### **AI-based App Design:**

- Designed and developed an AI-driven app/website for improving health, learning support, or internet trustworthiness.
- Conducted user-focused research, including two focus group sessions, to gather insights on user needs and preferences.
- Created personas based on focus group results to inform design decisions and align with user goals.
- Defined design goals incorporating usability principles and user experience objectives.
- Developed low-fidelity wireframes and high-fidelity prototypes, showcasing intuitive interaction design and visual aesthetics using the Figma tool.
- Conducted user study evaluations, refining the design based on feedback and usability findings.

## **CERTIFICATIONS**

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- SQL & PostgreSQL: Become an SQL Expert | *Udemy*
- Java Programming Masterclass | *Udemy*
- HTML Essential Training | *LinkedIn*
- CSS Essential Training | *LinkedIn*
- Introduction to Tableau | *DataCamp*
- Data Structures and Algorithms | *Geeks for Geeks*
- AWS Academy Graduate | *AWS Academy Data Analytics*