

## ROMIL JAIN

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### EDUCATION

Syracuse University, Syracuse, New York  
Master of Science in Computer Science

May 2024  
GPA: 3.7

Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, India  
Bachelor of Technology in Computer Science

July 2020  
GPA: 3.5

### TECHNICAL SKILLS & CERTIFICATIONS

**Programming Languages:** Python, JavaScript, Java, HTML5, Swift, SwiftUI, C/C++, COBOL

**Frameworks & Libraries:** Scikit-learn, Keras, spaCy, NLTK, PyTorch, React.js, Node.js, Django, Spring, FastAPI, SpringBoot

**Data & AI Technologies:** ETL/ELT, AWS (S3, Glue, Redshift, Lambda)

**Databases & Tools:** SQL, Google Firebase, DB2, MySQL, Elasticsearch, MongoDB, T-SQL, Android, Postman, Docker

### WORK EXPERIENCE

Software Engineer Intern, PMI, New York, USA

May 2023 – May 2024

- Trained NLP-based text classifier **achieving 80% PR AUC** for distinguishing genuine and fake job postings
- Built data pipeline for preprocessing and feature engineering, **adding 20% synthetic examples for data balance**
- Used enhanced search algorithms with TF-IDF, Word2Vec, and vectorization methods, **reducing false positives by 20%**
- Built RNN and LSTM models using keras and scikit-learn to combat overfitting and **achieved 87% PR AUC**

Software Engineer, Tata Consultancy Services, Mumbai, India

Oct 2020 – Jul 2022

- Optimized DB2 efficiency, reducing transaction processing time **by 40% for a leading Nordic bank**
- Led the migration of legacy COBOL files to Python, **decreasing critical business operations processing time by 50%**
- Applied Python techniques to mainframe workflows, improving efficiency and **achieving 35% cost savings**
- **Enhanced data quality by 25% through preprocessing techniques**, ensuring seamless application integration
- Analyzed and optimized batch jobs, reducing system downtime by 40%
- Leveraged MAPIT for CICS transaction testing, **reducing debugging time by 35%** in maintenance activities

Software Engineer Intern, Login2Xplore, Indore, India

Jan 2019 – May 2019

- Developed cross-platform mobile app with Apache Cordova and REST APIs, **increasing user engagement by 50%**
- Implemented Elasticsearch algorithms for JSON parsing, **reducing error rates by 15%**
- **Enhanced user navigation and reduced bounce rates by 25%** by developing a user-friendly interface with HTML, CSS, and Document Object Model (DOM)

### PROJECTS

Template Management System with AI-Powered Collaboration | Python, FastAPI

- Built a full-stack Template Management System with FastAPI, React, and SQL, enabling version control, real-time collaboration, and AI suggestions, **boosting efficiency by 30%**
- Implemented JWT authentication and role-based access, ensuring data consistency and **reducing errors by 20%**

Customer Data Pipeline Builder | AWS, Python, SQL

- Designed and implemented an ETL pipeline to integrate customer data from multiple sources
- Utilized AWS services (S3, Glue, Redshift, Lambda) for data storage, processing, and warehousing
- Implemented data quality checks and error handling mechanisms, **ensuring 99.9% data accuracy**

KubeConnect: Microservices Deployment | Kubernetes, Docker, Node.js, MongoDB

- Engineered containerized Node.js application with MongoDB database using Docker and Kubernetes for scalable deployment
- Developed centralized configuration system with ConfigMaps and Secrets, **decreasing setup overhead by 65%**

Recruitment Database System for University Medical Center | T-SQL

- Designed a recruitment database for University Medical Center, **streamlining hiring for 100+ candidates** and 20 jobs
- Generated reports on candidate pipeline, job openings, and **onboarding success improving recruitment efficiency by 30%**

Used Books Retailer | Java, SpringBoot, Postman

- Engineered textbook system with algorithmic pricing leveraging Spring Boot & Postman, increasing transactions 20%
- Managed HTTP requests for transactions, showcasing modularization and design patterns, cutting processing time by 30%

CodeVoice | Python, Java

- Created a software solution employing **speech recognition with 95% accuracy** in transcribing spoken instructions into Java syntax, aiding visually impaired programmers