

# JILL GOSRANI

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## EDUCATION

### Syracuse University

Master of Science in Computer Science (GPA - 3.8/4.0)

Syracuse, NY

August 2022 - May 2024

### University of Mumbai

Bachelor of Engineering in Information Technology (GPA - 3.67/4.0)

Mumbai, MH

June 2017 - July 2021

## EXPERIENCE

### Software Engineer Intern

Syracuse University

June 2024 - Present

Syracuse, NY

- Developed a full-stack finance management application using **Java**, **Spring Boot**, **React**, and a **microservices architecture**, streamlining expense tracking, budget setting, and spending analysis for 100+ users.
- Optimized query response times by 67% (150ms → 50ms) by integrating a **Redis caching layer** with **LRU eviction policies**, enhancing system scalability under peak loads.
- Implemented robust security protocols with **Spring Security** and **data encryption**, ensuring compliance with privacy standards and safeguarding sensitive financial data.

### Research Assistant

C4 Lab

May 2023 - October 2023

Syracuse, NY

- Implemented a custom **NLP data cleaning pipeline** by combining functionalities from existing scripts into a modular function, tested on 100K+ records to ensure data quality for analysis utilized **Python**, **Pandas**, **NumPy**, and modular scripting.
- Built a semantic deduplication API using **FastAPI**, **spaCy** and **cosine similarity**, reducing duplicate tweets by 20% (122k → 94K) and improving dataset quality for downstream NLP tasks.
- Collaborated with a **cross-functional research team** to optimize the **ELT pipeline** by implementing best practices in **NLP**, **data cleaning**, and **pipeline architecture**, improving reliability and scalability for research use cases.

### Software Engineer Intern

Art of Living

August 2020 - March 2021

Mumbai, MH

- Pioneered a project management Android application using **Flutter** and **Dart**, digitizing manual workflows and increasing productivity by 40% while enabling real-time project tracking for stakeholders.
- Worked in an **Agile development cycle**, actively engaging with clients to gather feedback and iteratively enhance features maintained project transparency using **Git** for version control and **Slack** for team coordination.
- Led a team** of 5 interns to integrate **Razorpay** within the app, enabling direct donations and project tracking enhanced user engagement through a transparent, intuitive interface backed by **Firebase** for real-time data handling.

## PROJECTS

### Social Media Platform | MongoDB, Express, React, Node

- Developed a responsive, mobile-friendly front-end UI with the **MERN stack** and constructed **GraphQL APIs** to optimize load times, reducing response times for 75% of requests.
- Led a team of five to build a robust user management database, improve authentication processes, and increase system reliability by 35%.

### University Shuttle System | React, Java, Spring Boot, PostgreSQL

- Devised a ride request and dispatch system leveraging **React**, **Java**, **Spring Boot**, and **PostgreSQL**, implementing K-Means clustering to optimized passenger grouping, reducing empty seats and cutting average travel time by 25%.
- Integrated real-time traffic **REST API** to adjust shuttle routes, reducing congestion delays and improving ETA accuracy by 15 minutes.

### AI Player Gomoku Game | CNN, NumPy, Pandas, Python

- Engineered an AI Player for Gomoku board game achieving 83% win rate by implementing **convolutional neural networks(CNN)** on game states using **NumPy array**, bench-marking it's performance against minimax model.
- Devised a novel CNN architecture with 5 input layers and 1 output layer, strategically reducing training loss over 10 epochs, resulting in more accurate game strategy predictions.

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, Python, SQL, Dart.

**Frameworks:** Spring Boot, Hibernate, Flask, Django, FastAPI, React, Angular, Express.js, Node.js.

**Databases and Cloud:** SQL, MongoDB, PostgreSQL, Firebase, Redis.

**DevOps and Cloud:** Git, Docker, Kubernetes, Jenkins (CI/CD), AWS.

**Tools and Platforms:** Unix/Linux/Bash, Kafka, RabbitMQ, Jira, Postman.