

# Yug Vajani

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## EDUCATION

### University of Illinois Urbana-Champaign

Master of Computer Science (GPA: 4.00/4.00)

- Relevant Coursework – Topics in Software Engineering, Machine Learning, Art of Web Programming

Champaign, Illinois

August 2024- December 2025

### Sardar Patel Institute of Technology, Mumbai

Bachelor of Technology, Computer Engineering (CGPA: 9.72/10.00)

- Relevant Coursework – Database System, Advanced Data Structures, Object Oriented Programming

Mumbai, India

August 2018- May 2022

## EXPERIENCE

### University of Illinois Urbana-Champaign

Graduate Teaching Assistant

- Assisted students in understanding software engineering principles, including design patterns, testing, and agile development.
- Reviewed and graded coding assignments, ensuring adherence to best practices.
- Conducted office hours to support students in debugging and improving software projects.

Champaign, Illinois

January 2025- Present

### J.P.Morgan Chase & Co.

Software Engineer II

- Enhanced frontend features, improving application performance by 35%, reducing client delays during trade placements.
- Set up infrastructure for disaster recovery, high availability, and failover mechanisms to ensure server reliability.
- Developed automation scripts, reducing manual testing efforts and decreasing production bugs.

Mumbai, India

January 2024- July 2024

Software Engineer I

- Utilized RxJS and Redux for state management and front-end integration with the server.
- Implemented socket-based data streaming, enabling server to handle 20,000 concurrent requests using multithreading.
- Performed backend service testing with JUnit, ensuring robust and reliable functionality.

August 2022- December 2023

### Prime Software Solutions

Software Developer Intern

- Established an efficient GST Tax Automation System using Agile methodologies to adapt to changing GST rules.
- Optimized MySQL queries, reducing execution time and database load, enhancing system performance.
- Overhauled API connections by removing outdated endpoints and improving response times by 15%.

Mumbai, India

December 2021- February 2022

## PROJECTS

### Reducing Gender and Ethnicity Bias in Personality Trait Prediction | Python, Computer Vision

- Designed a website to streamline recruitment by predicting candidates' personality traits during screening.
- Generated detailed analyses of personality traits for early-stage candidate filtering based on resumes and evaluation scores.
- Used Adversarial Debiasing techniques to mitigate bias, achieving 89.4% - 91.3% accuracy. Published paper: [IEEE Xplore](#).

Mumbai, India

### Automated Paper Evaluation System | Flutter, Computer Vision

- Developed an application to automate the grading of handwritten student assessments, providing scores with detailed breakdowns.
- Extracted text using the Google Vision API and conducted spell-checking with SymSpell.
- Applied the Rake Algorithm and cosine similarity for analysis. Published a paper: [IEEE Xplore](#).

Mumbai, India

## SKILLS

**Languages:** Python, Java, JavaScript, Typescript, SQL, C

**Databases / Cloud:** MongoDB, Cloud Firestore, MySQL, Firebase, SQLite3, AWS, GCP

**Frameworks / Technologies:** React, Redux, RxJS, Jest, Spring, Django, Flask, JUnit, Figma, CSS, HTML, Agile

**Tools:** Git, Kaggle, OpenCV, Tableau, Excel, Selenium, Docker, Linux

## EXTRA CURRICULARS

- Certifications:** AWS Cloud Practitioner
- Code for Good Team, J.P. Morgan Chase & Co.** - Orchestrated a global CFG Hackathon, which also served as a college student recruitment process.
- Events Team, CSI, Sardar Patel Institute of Technology** - Led technical workshops and participated in organizing a global-level CSI Hackathon.