

# UMANG PATEL

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## EDUCATION

### M.S., Software Engineering

San Jose State University, San José, CA

May 2025

- **Relevant Coursework:** Software system Engineering, Data Mining, Enterprise Software

### B.S., Software Engineering

State University of New York at Oswego, NY

May 2023

GPA: 3.5

- **President's List:** Spring 2021, Spring 2023 | **Dean's List:** Spring 2020, Spring 2022, Fall 2022
  - **Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, Machine Learning, Graphical User Interfaces, Software Engineering, Safety Requirements Engineering, Software Quality, Software Design, and Web Services.
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## SKILLS

- **Programming Languages:** Java, Python, C, Clojure, Scala, Prolog, C++, XML.
  - **Web Technologies:** HTML, CSS, JavaScript, React.js, Node.js, Flask, Spring, Vue.js, RESTful API.
  - **Database:** SQL, MySQL, PostgreSQL, MongoDB.
  - **Tools and Technologies:** Git/GitHub, ngrok, Jupyter Notebook, Google Colab, Agile/Scrum/Waterfall.
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## EXPERIENCE

### PostMaker - Collaborative Project with IBM & SUNY

Oswego, NY

#### Software Design

Aug - Dec 2022

- Engineered a software application efficiently retrieves and displays vital messages, based on specific reactions, from Discord onto a dedicated website, resulting in seamless accessibility and reducing time spent on follow-ups by 70%.
  - Demonstrated exceptional communication and teamwork while collaborating closely with IBM stakeholders, translating needs into actionable UML diagrams for improved project efficiency.
  - Mastered agile and stand-up development methodologies, achieving 100% completion of all project requirements within project timelines.
  - Collaborated with over 5 teams/25 members to create, refine, and gain practical experience in development process management techniques applicable at a professional level.
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## PROJECT EXPERIENCE

### PriceVision - Software Development

Oswego, NY

(Course/Team Project) - <https://github.com/umangptl/PriceVision>

Jan - May 2023

- Develop an application for stock price predictions and utilizing Long Short-Term Memory (LSTM) algorithms.
- Constructed a user-friendly React interface, displayed interactive graphs of real and predicted values for next 7 days, and a feature to select up to 15 stocks, and access company information, and news articles.
- Optimized backend architecture for machine learning, integrating ngrok for server tunneling, and utilizing Flask for API functionality while achieving a remarkable mean absolute percentage error of 2.4% for prediction values.

### WeatherCast- Web Services

Oswego, NY

(Course/Individual Project) - <https://github.com/umangptl/WeatherCast>

Jan - May 2023

- Designed a web-based application using Spring Boot and implemented Model-View-Controller (MVC) pattern, with five endpoints to deliver real-time weather information for any location worldwide.
  - Integrated to APIs, making 60 calls per minute, and employed PostgreSQL database to efficiently store user data and favorite cities for enhanced performance and data accessibility.
  - Refined user experience by aggregating 3-hour 5-day weather data into comprehensive daily max-min forecasts.
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## LEADERSHIP EXPERIENCE

### Admissions Office at SUNY Oswego:

Oswego, NY

#### Campus Tour Guide and Office Assistant

Aug 2022 - May 2023

- Handled over 400+ phone calls from prospective students and families, promptly addressing inquiries and providing detailed information to assist in decision-making process.
- Coordinated invaluable support in organizing and executing 7+ admissions events, including Open Houses and Admitted Students Day, by expertly guiding attendees and showcasing university's unique features.

### Residence Life and Housing at SUNY Oswego:

Oswego, NY

#### Resident Assistant and Front Desk Attendant (Riggs & Johnson Hall)

Aug 2021 - May 2023

- Organized events with 30+ Services & 25+ members, managing budgets and ensuring exceptional experiences for residents.
- Responded promptly to residents' needs, advocated for concerns, and provided information & support to 350+ students.