UMANG PATEL

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EDUCATION

Master of Science in Software Engineering   San José, CA
San Jose State University (SJSU)   *(Expected) May 2025*

- **Involvement**: Software and Computer Engineering Society (SCE), IEEE SJSU.
  Relevant Coursework: Enterprise Software Platforms, Software System Engineering, Software Engineering Process, Application Development, Software Quality Assurance & Artificial intelligence Testing, Data Mining, Machine Learning.

Bachelor of Science in Software Engineering   Oswego, NY
State University of New York at Oswego (SUNY)   *May 2023*

- **Cum laude** CGPA; 3.5 | **President's List:** Spring 2021, Spring 2023 | **Dean's List:** Spring 2020, Spring 2022, Fall 2022.
- **Leadership:** Resident Assistant (Riggs), Admissions Office Assistant, Campus Tour Guide, Resident Hall Council (Hart).
- **Relevant Coursework:** Data Structures and Algorithms, Database Management Systems, Machine Learning, Graphical User Interfaces, Software Engineering, Safety Requirements Engineering, Software Quality, Software Design, and Web Services.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C, C++, Scala, Prolog, Clojure.
- **Web Technologies:** HTML, CSS, JavaScript, React.js, Node.js, Vue.js, Flask, Servlets, MVC, Spring.
- **Database:** SQL, MySQL, PostgreSQL, MongoDB. Big Query.
- **Cloud Services:** AWS, Microsoft Azure, Google Cloud Platform.
- **Tool and Technologies:** Git/GitHub, Jenkins, Ansible, Docker, Kubernetes, Ngrok, Agile SCRUM.

WORK EXPERIENCE

IBM x SUNY Collaborative Project   Oswego, NY
Software Engineer   Aug 2022 - Dec 2022

- Engineered a robust software application for retrieving and displaying vital messages from Discord onto a dedicated website, enhancing user experience and content access.
- Improved project efficiency by 20% by accurately translating IBM stakeholders' requirements into actionable UML diagrams, accelerating time-to-market for new features
- Mastered agile methodologies and coordinated with over 5 teams to gain practical experience in professional-level development process management, achieving 100% project completion within timelines.
- Analyzed and implemented a sophisticated Microservice architecture creating core elements: host, API services, JWT verification, and Discord Integration, enhancing the overall system architecture and functionality.

PROJECTS

Bitcoin Price Prediction, BitSmart Predictive-Console   Jan 2024 - May 2024
Python, Machine Learning (Random Forest, ARIMA, LSTM), Data Analysis, Feature Engineering, Streamlit

- Built a lightweight model to predict Bitcoin prices, achieving over 85% accuracy and ranked third-best model in class. Conducted extensive exploratory data analysis to identify trends, significantly enhancing the model's predictive power.
- Developed and deployed a user-friendly Streamlit web application, integrating robust data preprocessing and feature engineering techniques, resulting in a 20% improvement in model performance and ensuring real-time prediction accuracy.

Ticket Booking System, Silver Theatre   Aug 2023 - Dec 2023
Java, Spring Boot, HTML/CSS, MySQL, JavaScript, CI/CD

- Created a web-based application using Spring Boot and MVC, reducing page load times by 20% for real-time movie ticket bookings, and integrated an analytics dashboard for enhanced real-time insights.
- Sustained application security by integrating authentication and applying tokenization, minimizing potential security vulnerabilities by 40%, and safeguarding user data.

Application Tracking System, Skill Match   Aug 2023 - Dec 2023
AWS, React.js, MongoDB, JWT, Google SSO, RESTful APIs, Jenkins,

- Orchestrated end-to-end development of an enterprise application portal, achieving full project completion and enhanced user interface, by reducing application submission time by 30%.
- Deployed CI/CD with GitHub web-hook and Jenkins, improved development frequency, and implemented role-based access control with Google SSO, enhancing data security and authentication efficiency by 24%.