# Raj Patel

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## EDUCATION

**New Jersey Institute of Technology**                                      **Jan. 2019 – May 2024**
*Bachelor of Science in Computer Science, Minor in Information Technology*                *Newark, NJ*
**Coursework**: Data Structures, Database, Data Science, Machine Structures, Web Applications, Computer Systems & Network, Software Engineering, Algorithms, Probability & Statistics, Project Management

## EXPERIENCE

**Patch Analyst**                                                          **Jan. 2023 – May 2023**
*New Jersey Institute of Technology*                                                      *Newark, NJ*
- Led vital upgrade and maintenance for Higher Education systems, orchestrating periodic patches and ensuring comprehensive integration and testing among departments.
- Authored in-depth documentation for system applications and efficiently gathered patch notes from various departments into a centralized Google Sheet for user access.
- Conducted detailed testing sessions with department users to rigorously assess the upgraded system's data integrity and the functionality of all site links.
- Successfully obtained departmental user sign-offs, reflecting unanimous approval and satisfaction with the system's enhanced performance and reliability.

**System Support Group Intern**                                          **Jun. 2022 – Aug. 2022**
*NJ Transit*                                                                              *Newark, NJ*
- Managed PC system performance and collaborated on inter-departmental projects, including updating the default GPS to Google Maps for enhanced functionality.
- Leveraged SQL and Crystal Reports for data extraction and detailed analysis, while proficiently managing various IT tools for daily operations and project delivery.
- Delivered multi-tiered technical support, resolving service issues and enhancing company-wide IT infrastructure both in-person and via Microsoft Teams.

**Database and Systems Intern**                                          **Apr. 2022 – Aug. 2022**
*Princeton Infrared Technologies*                                               *South Brunswick , NJ*
- Transitioned legacy databases to web platforms, enhancing accessibility and user interface.
- Developed user-friendly web-forms, enabling efficient data entry for non-technical staff.
- Ensured project alignment with management requirements, delivering tailored system solutions.

## PROJECTS

**Natural Language Processing with Disaster Tweets**
- Utilized NLP to discern tweet authenticity, employing Random Forest and Decision Trees on over 10K tweets.

**Image Caption Generator**
- Engineered a CNN and LSTM model for image context recognition and description via natural language techniques.

**AI Chatbot**
- Created an NLP-based chatbot to parse articles and generate relevant user query responses.

**E-Commerce Website**
- Developed a MySQL-backed E-Commerce platform, enhancing database management skills and web development with PHP, HTML5, and CSS.

## TECHNICAL SKILLS

**Languages**: Java, Python, HTML5, C/C++, C#, CSS, SQL, JavaScript, PHP, R, MATLAB, PostgreSQL
**Frameworks**: React, Node.js, WordPress, Django
**Developer Tools**: Git, Docker, Linux, MS Suite, VS Code, GithHub, Oracle SQL Developer, Azure, Xcode
**Libraries**: Pandas, NumPy, Matplotlib, Plotly, TensorFlow, PyTorch