

# Raj Patel

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## OBJECTIVE

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To secure a challenging role in the field of Computer Science where my technical skills and passion for innovation can contribute to the success of a team orientated organization.

## EDUCATION

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### **New Jersey Institute of Technology, Newark, NJ**

*B.S in Computer Science and B.S in Information Technology, Expected May 2023*

Selected Coursework: Introduction to Python (Spring 2019), Introduction to System Administration (Spring 2019), Web Application/Internet Application (Fall 2020), Computer Systems and Network (Fall 2020), Database System Design & Management (Spring 2020), Intensive Programming in Linux (Fall 2021), Data Science (Fall 2021), Data Mining/Machine Learning (Fall 2021) Adv. Data Structures (Spring 2022), Software Engineering (2023)

## SKILLS

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**Programming/Scripting Languages:** (Proficient) Java, (Proficient) Python, (Proficient) HTML5, (familiar) C/C++, C#, CSS, SQL, JavaScript, PHP, R, MATLAB.

**Frameworks and tools:** Git, GitHub, Linux, Windows, Mac OS X, MS Suite

## EXPERIENCE

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### **New Jersey Institute of Technology / Patch Analyst Project**

*Newark, NJ, January 2023 – Current*

- Led an upgrade and maintenance project for Higher Education systems through periodic patches, ensuring seamless integration and testing across various departments.
- Created comprehensive documentation for applications and collected relevant patch notes and documents from all the different departments and organized them in a shared Google Sheet for easy access and presentation to users.
- Conducted separate meetings with departmental users to test the upgraded system, including verification of accurate data loading and functionality testing of all links on their sites.
- Obtained sign-off from departmental users, confirming their satisfaction with upgraded and maintained system.

### **NJ Transit / System Support Group Intern**

*Newark, NJ, June 2022 – August 2022*

- Manage the configuration and performance management of all PC systems in the department.
- Collaborated on various projects with different teams and partnered companies. One of them involved implementing the change of the default GPS map to Google Maps for more modernization and practicability.
- Extracted certain data using queries to find desired outputs from SQL developer to then make a detail report using Crystal Reports.
- Used various tools/software such as Oracle SQL Developer, Crystal Reports, Trapeze4Workstation, and Avaya 1x Agent for day-to-day tasks and projects.
- Installing and configuring computer hardware, software, systems, and networks.
- Responding in a timing manner to service issues and requests.
- Providing technical support across the company (in person or through Microsoft Teams).

### **Princeton Infrared Technologies / Database and Systems Intern**

*South Brunswick Twp, NJ, April 2022 – August 2022*

- Modernize their existing database (dBase IV) and make it web accessible using various tools such as C++, SQL, Java, Python, and Microsoft Access.

- Collaborate with other departments to create web-based forms that can be used by non-technical users to input data and use the application without difficulties.
- Worked closely with the company's program manager and manufacturing manager to ensure the project meets their requirements.
- Troubleshoot any technical issues that may arise during the project.
- Stay up to date with industry trends and technologies to ensure the database is modern and efficient.

### **Amazon Fulfillment Center / Warehouse Associate**

*Robbinsville Twp, NJ April 2021 - September 2021*

- Proficiently handled Inbound/Outbound processing and sorting of customer packages in a high-paced environment, meeting end-of-shift deadlines with a team.
- Demonstrated expertise in inventory and logistics software programs to store and manage data effectively.
- Resolved problems related to damaged products and performed scanning, sorting, pallet wrapping, and staging of pallets with attention to detail.

### **Monmouth Dental Pa / Office Receptionist**

*Monmouth Mall, Eatontown NJ, May 2018 - August 2020*

- Verified patients' insurance eligibility and claim status by communicating with insurance companies resulting in accurate billing and claim processing.
- Demonstrated expertise in Microsoft Excel to manage data effectively.
- Affably answer telephones and schedule or confirm office appointments and surgeries.

## **PROJECTS**

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### **Natural Language Processing with Disaster Tweets.**

- Leveraged Natural Language Processing (NLP) techniques to predict authenticity of tweets and raise awareness about false information on social media.
- Developed models using Random Forest and Decision Trees algorithm to evaluate and analyze a set of 10.9k training and test tweets dataset.

### **Image Caption Generator**

- Developed a model using CNN and LSTM that involves computer vision to recognize and describe the context of an image using natural language processing techniques to a natural language.

### **AI Chatbot**

- Developed an AI Chatbot utilizing natural language processing techniques to extract information from the article and generate appropriate responses to user queries related to the article.

### **E-Commerce Website**

- Designed and developed a user-friendly E-Commerce website by implementing MySQL, phpMyAdmin, HTML5 and CSS. Enhancing proficiency in database management and PHP.

### **Weather App**

- Developed a weather web app enabling users to interact with real-time weather data by utilizing OpenWeatherMap API.
- Built a simple yet visually appealing weather app for IOS using Xcode and SwiftUI, displaying real-time weather information based on the user's current location.

### **Personal Website / [rp-766.github.io/Personal-Website](https://rp-766.github.io/Personal-Website)**

- Created a personal website to showcase my education, skills, and project portfolio, effectively organizing relevant information in a comprehensive and accessible manner.