

# Omar Sheikh

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## EDUCATION

### New York Institute of Technology

*Master of Science in Computer Science*

New York, NY

Dec. 2023 – Dec. 2024

### New York Institute of Technology

*Bachelor of Science in Computer Science*

New York, NY

Sep. 2021 – Dec 2023

## EXPERIENCE

### RPA Software Engineer Intern

*Memorial Sloan Kettering Cancer Center*

May 2023 – Aug. 2023

New York, NY

- Automated three new hire HR workflows with UiPath using C#, cutting manual effort by 30% to save 90 hours monthly for HR.
- Developed a RESTful API using FastAPI for Workday integration within UiPath automations, improving automation process efficiency by 20%.
- Partnered with HR to automate key processes, aligning automation outcomes and business user expectations for user acceptance of new systems.

### Software Engineer Intern

*Memorial Sloan Kettering Cancer Center*

May. 2022 – Aug. 2022

New York, NY

- Developed a .NET application with C#, automating Crystal Report conversion to PDFs to save 20 hours weekly.
- Deployed a data retrieval program with C#, accessing clinical databases and extracting 24 and 48 hour records for real time patient data access with a 40% reduction in access time
- Enhanced data security with C# cryptography, achieving 99.9% encryption success to ensure HIPAA compliance.

## PROJECTS

### IncomeInsight | *Python, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn*

Dec. 2023

- Developed an income prediction ML model in Python with pandas, matplotlib, seaborn, scikit-learn, and NumPy, ensuring accuracy and reliability.
- Executed exploratory data analysis on the Adult Income dataset, enhancing model interpretability by pre-processing data, handling categorical features, and analyzing correlations through feature engineering.
- Achieved an 85.12% accuracy with a trained Random Forest Classifier, identifying crucial predictors like age, education level, marital status, and weekly working hours in income level predictions.

### OpenAI Chatbot | *Node.js, ChatGPT API, OpenAI Library*

Nov. 2023

- Developed an AI chat bot using Node.js, leveraging the ChatGPT API with GPT 3.5 Turbo for dynamic conversational capabilities.
- Implemented a robust conversation flow by persistently storing chat history and intelligently referencing it in subsequent requests.
- Employed the official OpenAI library for Node.js, re-line sync for user interaction, Dot ENV for secure API key storage, and Colors for enhanced console visualization.

### Moodle E-Learning | *PHP, MySQL, HTML, CSS, JavaScript*

Jan. 2023 – Dec. 2023

- Developed a full-stack e-learning application using HTML, CSS, JavaScript (AJAX), and Chart.js for 30 interactive lessons and real-time data visualization.
- Implemented PHP/MySQL authentication and session management, enhancing security and personalized access for over 200 students.
- Engineered an adaptive testing module by implementing PHP-based algorithms and JavaScript for dynamic difficulty scaling, creating exam content based on individual student performance metrics.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, C#, JavaScript, SQL, PHP, HTML/CSS

**Frameworks:** React, .NET, Material-UI, FastAPI

**Developer Tools:** GitHub, VS Code, Visual Studio, Eclipse, XCode, MyPHPAdmin, UiPath, MAMP

**Libraries:** OpenAI, Chart.js, AJAX, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn