

# Ricardo Rodriguez

New Providence, NJ • 6468975931 • [ricardo.rodriguez252002@gmail.com](mailto:ricardo.rodriguez252002@gmail.com) • [LinkedIn](#) • [Github](#)

## Education

### New Jersey Institute of Technology

Bachelor of Science in Computer Science

Newark, NJ

Expected Graduation: December 2025

### Union College of Union County

Associates of Science in Computer Science

Cranford, NJ

May 2023

## Experience

### AI Research Intern

Union College of Union County

Cranford, NJ

May 2023 - August 2023

- Spearheaded the development of an AI assistant Chatbot
- Collaborated with cross-functional teams to improve user and Chatbot interaction
- Implemented a web scraping tool, enhancing the chatbot knowledge base by 30%
- Managed the development of the backend, ensuring efficient storage and retrieval of conversations

### Software Engineer Intern

Union College of Union County

Cranford, NJ

May 2022 - September 2022

- Engineered a full-stack application using React, Django, and MongoDB
- Collaborated with cross-functional teams to optimize database queries and application performance
- Implemented process improvements, leading to faster application response times and efficient user experience
- Managed code reviews, ensuring adherence to best practices and maintaining high code quality

## Projects

### Wordle-Like Game

February 2025

- Created a Wordle-inspired Android game using Jetpack Compose for a modern UI experience
- Designed a dynamic game board UI, utilizing custom composable functions for reusable components
- Managed user interactions with text input validation and real-time game state updates

### Retrieval-Augmented Generation (RAG) System

November 2024

- Developed a Retrieval-Augmented Generation (RAG) system in Python, integrating data pipelines for extraction, transformation, and embedding
- Implemented a vectorized retrieval mechanism using Qdrant and MongoDB to enhance contextual response accuracy
- Led the design and deployment of data pipelines, optimizing data storage, embedding, and chunking for improved inference

### Fitness App

July 2024

- Programmed a fitness app using React Native, Python, GraphQL, and MongoDB for personalized workout planning
- Built and integrated third-party APIs to provide users with a vast library of exercises
- Enhanced user experience with personalized workout tracking, making fitness planning more accessible and effective

## Skills

**Language Skills:** English, Spanish

**Technical Skills:** Python, JavaScript, SQL, MongoDB, C/C++, Docker, Git, Swift, Kotlin, React, React Native

**Relevant coursework:** Advanced Data Structures and Algorithms, IOS Development, Intro to Object Oriented Programing, Intro to Database Management Systems, Android Development