

Ayan Zia

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EDUCATION

Rutgers University - Honors College

B.S. in Computer Science, Data Science

GPA: 4.0/4.0, Dean's List

Relevant Courses: Data Structures & Algorithms, Linear Algebra, Computer Architecture, Discrete Structures

Expected Graduation: May 2027

New Brunswick, NJ

TECHNICAL SKILLS

Languages: Java, Swift, Python, C, HTML/CSS, JavaScript, RISC-V Assembly, SQL, GDScript, Kotlin

Certifications: Java Foundations Certified Junior Associate (Oracle), Oracle Database Foundations Certified Junior Associate, CompTIA: ITF+ (IT Fundamentals), Microsoft Office Specialist: Associate

PROJECTS

Scarlet Sync | React, TypeScript, Python, Supabase, PostgreSQL ([Website](#)) Aug. 2025

- Founded a full-stack academic planning platform to solve student inefficiencies at Rutgers University, unifying ideas from 4 separate school websites into a single, intuitive interface
- Designed a social scheduling system, allowing students to generate and share schedules for collaborative degree planning, course exploring, and course sniping

Daily Vocabulary Trainer | Xcode, Swift ([App Store](#)) Jul. 2023

- Launched an iOS vocabulary-building app that reached 2,200+ downloads and a 4.9/5 App Store rating
- Implemented features such as bookmarked words, flashcards, and gamified quizzes (multiple choice and spelling) on a set of 500+ words (in various difficulties)

Joyful Companions | Xcode, Swift, REST APIs, Insomnia, Firebase, OpenAI API Aug. 2025

- Developed an iOS companion to teach Islamic values to children through friendly, character-based conversations
- Deployed an OpenAI-powered chatbot through REST APIs, and used Google Firebase to store user data

Messenger | Xcode, Swift, CocoaPods, Firebase, Google ML Kit ([Website](#)) - ([GitHub](#)) Aug. 2024

- Constructed a real-time iOS chat application with multilingual support across 10+ languages via Google ML Kit
- Integrated Google sign-in with Firebase Authentication and architected backend infrastructure using Google Firestore Database

Fitness Trainer | Python, MediaPipe, OpenCV, NumPy ([Website](#)) - ([GitHub](#)) Feb. 2025

- Created a real-time squat analysis tool leveraging pose landmark detection to provide live corrective feedback on form; structured form evaluation system based on vectorized joint angle calculations

Flight Delay Predictor | Python, Jupyter Notebook, Pandas, scikit-learn, Matplotlib ([GitHub](#)) May. 2025

- Trained a Random Forest Classifier on 136,000+ flight records across U.S. airports (2013–2023) to predict high-delay periods
- Achieved 84% accuracy on a 34,000-sample test set; compared various machine learning models

Monkey Jump | Godot Engine, GDScript ([Website](#)) - ([GitHub](#)) Jun. 2024

- Engineered an endless runner game with randomly generated obstacles, physics-based movement, and realistic collision detection system

EXPERIENCE

Erickson Senior Living

Server

Jul. 2023 - Present

New Providence, NJ

- Lead daily restaurant operations serving 100+ residents; train new staff to uphold high service standards
- Earned consistent recognition from management and residents for exceptional leadership and customer satisfaction