

Ayan Zia

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EDUCATION

Rutgers University - Honors College

New Brunswick, NJ

Bachelor of Science in Computer Science, Data Science

Expected Graduation: May 2027

GPA: 4.0, Dean's List (All semesters)

Coursework: Data Structures & Algorithms, Linear Algebra, Computer Architecture, Discrete Structures

TECHNICAL SKILLS

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

Frameworks & Libraries: React, Node.js, Next.js, MediaPipe, OpenCV, NumPy, Pandas, Scikit-learn, Matplotlib

Tools & Platforms: Git, CocoaPods, Docker, VS Code, Xcode, Insomnia

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, Node.js, Next.js, Python, Supabase, PostgreSQL* ([Website](#))

August 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](#))

July 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, Firebase, REST APIs, Insomnia, OpenAI API*

August 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](#))

August 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](#))

February 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](#))

June 2024

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

EXPERIENCE

Erickson Senior Living

July 2023 – Present

Server

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