

# Ayan Zia

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## EDUCATION

### Rutgers University - Honors College

Bachelor of Science in Computer Science, Data Science

New Brunswick, NJ

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) September 2025

- Founded a full-stack academic planning platform for 700+ users, solving student inefficiencies by unifying 2,500+ courses and 500+ degree programs from 4 university websites
- Designed a social scheduling system for collaborative degree planning, course exploration, and schedule sharing

### Daily Vocabulary Trainer | Xcode, Swift (App Store) July 2023

- Launched a native iOS vocabulary-building app with 2,200+ downloads and a 4.9/5 App Store rating by making learning engaging for a wide audience
- Implemented a comprehensive feature set, including gamified quizzes and flashcard systems, to drive user retention and facilitate effective learning across a curated library of over 500 words

### Joyful Companions | Xcode, Swift, Firebase, REST APIs, Insomnia, OpenAI API August 2025

- Developed an educational iOS application to teach children complex values through an interactive, character-driven experience, solving the challenge of making abstract concepts accessible and engaging
- Deployed an OpenAI-powered chatbot via a REST API and built backend to manage and persist user data

### Messenger | Xcode, Swift, CocoaPods, Firebase, Google ML Kit (Website) - (Github) August 2024

- Constructed a real-time iOS messaging app with instant, multilingual translation for 10+ languages using Google's ML Kit
- Used Google Firestore for a scalable, real-time database and Firebase Authentication for secure Google sign-in

### Fitness Trainer | Python, MediaPipe, OpenCV, NumPy (Website) - (Github) February 2025

- Created an AI-powered fitness tool to provide real-time corrective feedback on squat form by leveraging pose landmark detection and 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, featuring a procedural obstacle generation algorithm for infinite replayability and a robust, physics-based movement and collision detection system

## EXPERIENCE

### Erickson Senior Living

Server

July 2023 – Present

New Providence, NJ

- Managed communication and time in a fast-paced environment, coordinating service for 100+ residents nightly
- Mentored and trained 5+ new team members, improving team efficiency and customer satisfaction