

# Ayan Zia

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Honors Computer Science student at Rutgers University with hands-on experience in mobile development, seeking software engineering opportunities to drive innovation through technology

## EDUCATION

### Rutgers University - Honors

B.S. in Computer Science & Minor in Statistics

- o GPA: 4.0/4.0, Dean's List

- o Related Coursework: Data Structures & Algorithms, Linear Algebra, Discrete Structures I, Computer Architecture

New Brunswick, New Jersey

Expected Graduation: May 2027

## EXPERIENCE

### Erickson Senior Living

Student Server

New Providence, New Jersey

Jul 2023 – Present

- Managed everyday restaurant operations, serving 100+ residents daily while mentoring new employees to ensure smooth service
- Consistently received positive feedback from management and residents for efficiency and customer service

## PROJECTS

### Messenger

Nov 2023 – Present

- Engineered a real-time iOS messaging app with Firebase, enabling translation across 10+ languages via Google ML Kit
- Implemented secure Google sign-in authentication, improving accessibility and user security

### Daily Vocabulary Trainer

Jan 2020 – Jul 2023

- Launched an iOS vocabulary app with 1,500+ downloads and a 4.9/5 rating, improving language learning accessibility
- Implemented flashcards, multiple-choice, and spelling challenges, catering to diverse learning styles

### Fitness Trainer

Dec 2024 – Feb 2025

- Developed an AI-powered fitness application using OpenCV and NumPy to provide real-time squat form corrections
- Engineered a live posture analysis system, enhancing user performance and reducing injury risk

### Robotics Scouting Application

Nov 2023 – Jan 2024

- Developed an Android app in Kotlin for scouting robotics teams, streamlining team profile access in NJ competitions
- Designed an interactive team directory featuring logos, names, and locations for improved usability

### Monkey Jump

Apr 2024 – Jun 2024

- Built an endless runner game in Godot with procedurally generated obstacles, enhancing replayability
- Engineered a physics-based movement system with realistic gravity and collision detection for smoother gameplay

### Pomodoro Timer

Feb 2025 – Mar 2025

- Developed a web-based Pomodoro timer using HTML, CSS, and JavaScript, enhancing time management efficiency
- Designed an intuitive UI with customizable task entry, improving user engagement and productivity

## ACTIVITIES

### Future Business Leaders of America

State and National Level Competitor

Scotch Plains, New Jersey

Dec 2021 – Mar 2024

- Led a 3-member team to consecutive first-place state championships (2022, 2023), advancing to national finals
- Delivered award-winning business presentations, demonstrating analytical and public speaking excellence

### NP Intergenerational Club

Community Service Volunteer

New Providence, New Jersey

Nov 2021 – Dec 2023

- Organized community outreach programs, providing seniors with technical assistance and home maintenance support
- Facilitated intergenerational events to foster stronger community engagement and relationships

### The Connection

English as a Second Language Instructor

Summit, New Jersey

Oct 2022 – Mar 2023

- Taught structured English lessons to 25+ adult learners, improving language proficiency through interactive curriculum
- Designed engaging lesson plans tailored to diverse learning needs, enhancing student progress

## SKILLS

**Programming:** Java, Swift (iOS), Python, C, HTML, CSS, JavaScript, SQL, GDScript, Kotlin

**Certifications:** Java Foundations Certified Junior Associate, Oracle Database Foundations Certified Junior Associate, CompTIA:

ITF+ (IT Fundamentals), Microsoft Office Specialist: Associate