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: 3.96/4.00, Dean's List (all semesters)
    Coursework: Data Structures, Design and Analysis of Computer Algorithms, Computer Architecture, Numerical
Analysis and Computing, Data Management for Data Science, Discrete Structures, Statistics, Linear Algebra

TECHNICAL SKILLS

Programming Languages: Java, Swift, Python, C, HTML/CSS, JavaScript, TypeScript, SQL, PostgreSQL
Frameworks & Libraries: React, Node.js, Next.js, MediaPipe, OpenCV, NumPy, Pandas, Scikit-learn, Matplotlib
Tools & Platforms: Git, Firebase, Supabase, MongoDB, Xcode, AWS, Android Studio Code, Docker
Certifications: Java Foundations Certified Junior Associate, Database Foundations Certified Junior Associate

EXPERIENCE

IBM   Incoming Summer 2026
Back End Developer Intern   *Poughkeepsie, NY*

Idler (YC25)'s Widget Factory   January 2026 – Present
Problem Design Engineer   *Remote*
- Evaluated fairness of coding problems used to assess LLM agents by analyzing task descriptions, test suites, and agent solution attempts against codebase context
- Determined whether agent failures resulted from implementation errors versus ambiguous task specifications to ensure **evaluation quality standards**

Lykke   December 2025 – Present
Software Engineer   *Remote*
- Engineered a Chrome extension to automate the ingestion of academic data from Canvas LMS and developed external clipping tools to extract and structure content from YouTube transcripts and web articles
- Spearheaded a comprehensive **full-stack redesign**, re-architecting the backend infrastructure and user interface to optimize performance and ensure cross-platform compatibility with the mobile application
- Transformed disparate student resources into structured inputs for a conversational RAG-based knowledge graph

PROJECTS

Scarlet Sync | *React, TypeScript, Node.js, Next.js, Python, Supabase, PostgreSQL* (Website)   May 2025 – Present
- Founded a full-stack academic planning platform for **900+ 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
- Awarded **3rd place** in the Rutgers Shark Tank competition and secured formal commendations from Rutgers IT (OIT) and similar departments' leadership by pitching the platform's integration into institutional academic infrastructure

Daily Vocabulary Trainer | *Xcode, Swift* (App Store)   January 2020 – 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

Fetchr | *React, TypeScript, JavaScript, Python, Swift, Firebase* (Devpost)   October 2025 – October 2025
- Prototyped a lightweight smart collar during a hackathon using ESP32, accelerometer, heart rate sensor, and GPS to collect real-time pet location and activity data
- Developed and trained a machine learning model to detect abnormal pet behaviors, integrating it with Firebase backend and Swift mobile app to deliver immediate owner alerts