

# Aryan Keluskar

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## EDUCATION

**Bachelor's of Science in Computer Science; Minor in Statistics - Sophomore** Expected Graduation: May 2026  
**Arizona State University (The Barrett Honors College), Tempe, AZ** Overall GPA: 3.96/4.0  
**Activities and Awards:** NAE Grand Challengers Scholar, Most Innovative Design at E2 Camp. Major GPA: 4.0/4.0  
**Clubs:** Ambassador of the Fulton Engineering Schools, Officer at Computer Vision Club, RunDevils, Software Developers Association, Machine Learning Club, Sun Devil Data Science, Google Developer Club; **Relevant Coursework:** Object Oriented Programming, Calculus III, Programming with C/C++, Digital Design, Elements of Statistics, Principles of Programming

## EXPERIENCE

**Student Researcher, Arizona State University, Tempe** 08/2023 - Present

- Worked under Professor YooJung Choi on researching algorithmic fairness, with a primary focus on privacy-preserving and fair Machine Learning to ultimately develop safer practices for Machine Learning.
- Reviewed existing literature and implemented Homomorphic Encryption Schemes in order to benchmark their performance and assess their impact on fairness in popular data modelling techniques such as Linear Regression and Logistic Regression.
- Learnt Julia programming language to execute a data mining project, where I Analyzed and Filtered IMDB's dataset of over 730,000 entries using SQL and Python, producing a robust and reliable dataset. Developed a data processing and visualization algorithm.

**Website Development Intern, RCV Innovations Pvt Ltd, Hyderabad** 06/2023 - 07/2023

- Contributed to product design and development of an immersive retail experience utilizing digital twins and cloud computing, yielding a remarkable 46% surge in customer shopping satisfaction.
- Seamlessly integrated digital twins & deployed 3D models on web with Three.js and Matterport APIs. Designed and Developed a multi-page responsive website leveraging WIX, JavaScript & HTML, resulting in a 21% increase in user engagement.
- Collected customer behavior data with A/B Testing, and Utilized Mattertraffic along with Wix Analytics & Google Analytics, extracting valuable customer insights, increasing user engagement by 29%.

**Technology Captain of Student Government, The Hyderabad Public School, Begumpet** 08/2022 - 05/2023

- Improved the performance and stability of 20 school computers in the Computer lab by migrating them from older Windows XP version to Linux / Ubuntu OS, resulting in a 50% better start-up time.
- Managed and organized over 16 technology competitions within school, overseeing a participation of over 100 individuals

## PROJECTS

**IRINA - AI that solves Minesweeper** | Rust, Python | Machine Learning, Artificial Intelligence  
Project Link: <https://github.com/aryankeluskar/irina.minesweeper>  
Uses a probabilistic approach to solve Microsoft Minesweeper. Trains a Reinforcement Learning model using Q-Learning and predicts the next set of moves, completes the game in near-world record time by employing efficient algorithms and multi-threading.

**MinuteMiles** | Rust, Python, Astro, ReactJS | Data Science, Forecast, Front-end Development  
Project Link: <https://github.com/aryankeluskar/Minute-Miles>  
Mobile and Web App to create personalized goal-oriented training schedule for athletes. Every beginning is special, and this product is built to celebrate them! Uses fitness and geographic data to generate daily or weekly practice routes for users to reach their goals.

**EdComposer** | NodeJS, ReactJS, AWS S3, OpenAI API, Tailwind, Python | Web/Mobile App, Full-Stack Development  
Project Link: <https://github.com/EdComposer>  
Video generator that uses Artificial Intelligence to create engaging short videos for education. Easy to use, covers a variety of topics in multiple languages, and boosted student engagement by 23%. Improved performance by 600% with multi-threading.

**MelodySyncer** | Python, TypeScript, Vercel, API, MongoDB | Backend Development  
Project Link: <https://github.com/aryankeluskar/melodysyncer>; Visit: [melodysyncer.vercel.app](https://melodysyncer.vercel.app)  
Web API to convert Spotify songs or playlists to their YouTube equivalent. Improved performance by 12x with multi-threading and developed an unique scoring system that maximizes speed and accuracy. Uses Youtube Data API, MongoDB and Spotify API.

## SKILLS

**Software Development:** HTML5, Cascading Style Sheets (CSS), JavaScript, Git, NodeJS, ReactJS, NextJS, Bun, MongoDB, SQL (MySQL), Redis, Kafka, ExpressJS, Wordpress, Google OAuth, PHP, Wix, Adobe Dreamweaver, Git  
**Data Science & Machine Learning:** PyTorch, TensorFlow, Matlab, Keras, Fair Machine Learning using TenSEAL & Fairlearn  
**Proficient in** Java, Python, TypeScript. **Intermediate in** Rust, Julia, C, C++. **Microcontrollers Used:** Arduino, Raspberry Pi, ESP32;

## AWARDS & ACCOMPLISHMENTS

**Honorable Mention, ASU ScaleU - AI in Education Hackathon** 11th October, 2023  
**Finalist, Opportunity Hacks 2023** 8th October, 2023  
**New American University Award of \$13,500 per year, Arizona State University** January, 2023