

# Aryan Vinod Keluskar

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## Education

**BS in Computer Science**, Minor in Statistics

*Expected Graduation:* May 2026

**Arizona State University** (The Barrett Honors College)

GPA: 3.94

**Coursework:** *Data Structures & Algorithms, Programming with C/C++, Computer Organization, Assembly, Object Oriented Programming, Digital Design, Software Engineering, Operating Systems, Information Assurance.*

## Experience

**Software Engineering Intern**, The Biodesign Institute – Qiyun Lab

May 2024 – Aug 2024

- Developed and optimized statistical models in Python, enhancing prediction accuracy for data by 15.5%.
- Implemented linear mixed effects models to improve statistical significance by 10% for gut microbe analysis by collaborating with senior researchers.
- Increased code coverage by 12.5% by writing unit tests and improving CI/CD Agile workflows for an open-source Python library for bioinformatics. Resolved codebase warnings by 91.4 %

**Undergraduate Researcher**, Data Mining and Machine Learning Lab

Apr 2024 – Present

- Trained a Time Series model to predict genre-based movie ratings with 90.3% accuracy. Analyzed and filtered IMDB's dataset of over 730,000 entries using SQL and Python, producing a robust dataset.
- Improved dataset security by implementing homomorphic encryption schemes. Gained experience in regression modeling and probabilistic classifiers.

**Website Development Intern**, RCV Innovations Pvt. Ltd.

Jun 2023 – Jul 2023

- Developed backend infrastructure to integrate digital twins & 3D models onto websites using JavaScript, yielding a remarkable 46% surge in customer shopping satisfaction.
- Collected customer behavior data with A/B Testing. Increased click-through-rate by 29% using Apache Kafka, Google Analytics and Mattertraffic to extract information from customer website sessions.
- Developed a responsive website leveraging HTML, CSS & JavaScript, increasing user engagement by 21%.

## Projects

**Automated Medical Resource Allocation** | Next.js, TypeScript, Tailwind

[git.new/ecmo-allocation](https://git.new/ecmo-allocation)

- Optimized ECMO Machine allocation for 27+ Maricopa County hospitals by developing a system that integrates into existing infrastructure of insurance providers. Collaborated in a 6-member team with Mayo Clinic.

**EasyWire** | Python, Machine Learning, FastAPI, HTML, CSS, Plaid, Docker

[dub.sh/easywire](https://dub.sh/easywire)

- Developed and deployed a machine learning model to analyze currency exchange market trends and detect currency arbitrage. Achieved 4% reduction in losses using sentiment analysis and quantitative analysis.

**MelodySyncer** | TypeScript, Python, FastAPI, HTML, CSS, Google Cloud

[dub.sh/melodysyncer](https://dub.sh/melodysyncer)

- Web API to convert Spotify songs or playlists to YouTube within 0.2 seconds. Improved performance by 12x with multi-threading and developed a unique scoring system that maximizes speed and accuracy.

## Skills

**Languages:** Java, C++, Python, JavaScript, SQL, C, Julia, Ruby on Rails, Golang, Scheme, Prolog

**Technologies:** Linux / Unix, GitHub, Raspberry Pi, Arduino, Docker, Apache Kafka, Plaid, Stripe API, OpenAI

**Full-Stack Development:** HTML, CSS, TypeScript, JavaScript, Node.js, React.js, Next.js, MongoDB, SQL, SSL, DigitalOcean, Amazon Web Services (AWS), Google Cloud Platform (GCP), Google OAuth, Tailwind

## Leadership & Awards

**HackMIT 2024:** Sponsor Prize Winner; **SFHacks 2024:** Best Use of AI; **Opportunity Hacks 2023:** Finalist

**1st Place** Undergraduate Team at WiCS Coding Competition; **1st Place** at HackerDevils Hackathon

**DevLabs, Industry Director:** Raised over 5000\$ in Club Funding, Hosted Technical Panel Discussions