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

- 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

- 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

- 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