

Aryan Vinod Keluskar

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Skills

Languages: Java, Python, JavaScript, SQL, C, C++, Julia, Go

Technologies: Linux/Unix, Raspberry Pi, Arduino, Amazon Web Services, Stripe API, OpenAI

Full-Stack Development: HTML5, CSS, TypeScript, JavaScript, NodeJS, ReactJS, NextJS, MongoDB, SQL, ExpressJS, Google OAuth, Git, SSL, Tailwind

Experience

Software Engineering Intern, The Biodesign Institute – Qiyun Lab May 2024 – Aug 2024

- Developed and optimized statistical models, enhancing prediction accuracy for biological data by 15%.
- Collaborated with senior researchers to apply statistical methods and differential abundance analysis, significantly improving statistical significance.
- Increased code coverage by 12.5% by writing unit tests and improving CI/CD workflows. Resolved codebase warnings by 91.4%

Undergraduate Researcher, Data Mining and Machine Learning Lab Apr 2024 – Present

- Worked under Professor YooJung Choi to develop secure and unbiased practices for Machine Learning.
- Improved dataset security by implementing homomorphic encryption schemes. Gained experience in regression and probabilistic classifiers.
- Analyzed and Filtered IMDB's dataset of over 730,000 entries using SQL and Python, producing a robust dataset. Trained a Time Series model to predict genre-based movie ratings with 90.3% accuracy.

Website Development Intern, RCV Innovations Pvt. Ltd. Jun 2023 – Jul 2023

- Developed systems to integrate digital twins & 3D models on websites with JavaScript, yielding a remarkable 46% surge in customer shopping satisfaction.
- Developed a responsive website leveraging WIX, JavaScript & HTML, increasing user engagement by 21%.
- Collected customer behavior data with A/B Testing. Utilized Google Analytics and Mattertraffic to extract valuable customer insights, increasing click-through-rate by 29%.

Projects

EasyWire | HTML, CSS, Python, TimeSeries, ARIMA Modelling, FastAPI, Vercel dub.sh/easywire

- Used sentiment analysis and quantitative analysis to optimize currency transactions. Achieved 4% reduction in losses for users by analyzing market trends and detecting currency arbitrage.

FreshUntil | ReactJS, NodeJS, TypeScript, Python, Google Cloud git.new/fresh

- Developed a web-app using ReactJS, Google's Gemini API and Python that reduced food waste by 20% through automated expiry notifications, and personalized recipe suggestions.

EdComposer | ReactJS, NodeJS, TypeScript, OpenAI, AWS git.new/edcomposer

- Video generator that uses Artificial Intelligence to create engaging short-form videos for education. Boosted student engagement by 23%. Improved performance by 600% with multi-threading.

Education

Arizona State University (The Barrett Honors College) Graduating in May 2026

BS in Computer Science, **Minor** in Statistics. NAE Grand Challengers Scholar.

Relevant Coursework: Intro to Software Engineering, Data Structures & Algorithms, Computer Organization, Assembly Language, Object Oriented Programming in Java, Programming with C/C++, Digital Design

Leadership & Awards

San Francisco Hackathon 2024: Winner (Best Use of AI); **Opportunity Hacks 2023:** Finalist

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

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

Engineering Tutoring Center, Tutor: Tutored concepts from Java and Calculus to more than 60 students.

Software Developers Association, Technical Officer: Developed a responsive website using NextJS, Tailwind.