

Aarav Jain

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EDUCATION

Arizona State University

Bachelor of Science in Computer Science - Dean's List

Tempe, AZ

August 2021 – May 2025

WORK EXPERIENCE

Tech Mahindra

Software Developer Intern

May 2024 – July 2024

Noida, India

- Spearheaded mic and speakers testing for 20 devices connected to a server for AT&T's 5g network.
- Authored and managed this solution with python and shell scripting to automate ffmpeg-hls streaming and capturing results using AngularJS improving testing efficiency by 10 times.
- Improved proprietary bluetooth and websocket windows drivers resulting in reduced latency by 5%.

Arizona State University

Section Leader

August 2022 – December 2022

Tempe, AZ

- Conducted weekly classes that emphasized the value of Tempe campus resources, with an average of 25 attendees, facilitated discussions around resource accessibility, receiving feedback that 85% of students felt better informed.
- Conducted office hours with an average of 10 students per week for one-on-one express advising and addressing problems related to campus, transition from high school and university academics.

InvestMyFunds

Junior Software Developer

May 2021 – August 2021

Delhi, India

- Produced an interactive game to show comparison between investment media. Showed an increase in client investments and retention by 15%.
- Created a mobile app that allows each client to view a detailed report of each investment. Reduced client followup calls and confusion by 30%.

PROJECTS

Audible Wayfinding Maps | Dart, Flutter

- Awarded funding for converting this project to a startup venture after winning a pitch competition.
- Founded a comprehensive testing framework for the mobile app directed at visually impaired users, ensuring compliance with accessibility standards; this initiative led to a significant reduction in reported issues by 60%.
- Streamlined the app's routing functionality by implementing MapBox API, resulting in a measurable increase in data fetching and loading speed by 15%.
- Spearheaded the development and implementation of this comprehensive project, showed 30% reduction in project turnaround time and enhanced deliverable quality.

Longing | Google Cloud, Firebase, Firestore, Dart, Flutter

- Devised scalable user authentication protocols leveraging Google Cloud, resulting in a 60% reduction in onboarding time for new users, with an average onboarding experience now taking under 1 minutes.
- Enforced Firestore as a NoSQL database solution, optimizing user data storage for rapid retrieval; achieved a 50% reduction in data query times, solidified the custom room and interaction for the users.

HomeAssistant | Hass OS, Docker, Ubuntu Server, ESP32

- Created a fully functional smart home prototype using HassOS in a RaspberryPi; integrated 20+ IoT devices, enhancing real-time accessibility and control.
- Incorporated Google Assistant API, Spotify Developer Tools, ESP32 controller boards, yaml Scripting, Samsung SmartThings, and many IoT devices into a cohesive fully automated system.
- Engineered custom automation workflows that integrated household devices and applications, enhancing overall efficiency by 30% and enabling seamless control through a single platform.

Bingo Ticket Generator on Custom Background | Python, Pillow

- Developed an innovative Bingo ticket generation program in Python, enhancing ticket design options; increasing participant engagement at events by an estimated 25%.
- Made \$200 by selling tickets to different event managers, helped sponsors to advertise resulting in 30% sponsor recurrence and 15% increase in sponsorship.