


# RISHI AHUJA

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## Education

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**Dr. B R Ambedkar National Institute of Technology Jalandhar**

**Aug 2024 – Present**

*Bachelor of Technology in Information Technology — CGPA: 8.34*

*Jalandhar, Punjab*

## Research

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**ICFD-31k: Real-Time Conversational Fraud Detection** | *First Author*

**IJCAI-ECAI 2026**

- **Main Conference, Special Track on AI for Social Good:** Introduced **ICFD-31k**, the first large-scale Indian conversational fraud benchmark with **31,000+ English/Hinglish transcripts**.
- Designed chunk-level streaming labels and slow-thinking rationales for real-time, explainable fraud detection across **10 fraud categories**, validated through domain-expert evaluation.

**Retrieval Mechanisms Surpass Long-Context Scaling in Time Series Forecasting** | *First Author*

**ICLR 2026**

- **TSALM Workshop:** Demonstrated that long-context scaling can degrade time-series forecasting by amplifying historical noise.
- Explained **Retrieval-Augmented Forecasting (RAFT)** as a superior alternative, achieving an MSE of **0.379** vs. **0.647** for long-context forecasting while requiring significantly less computation.

**When Refusal Is Not Refusal: Perception–Policy Entanglement in Open VLMs** | *First Author*

**Under Review**

- **Submitted to LM4UC @ IJCAI-ECAI 2026:** Evaluates visual-prompt behavior in **12 small open VLMs** across **1,728 trials**, separating OCR failure, captioning, partial engagement, and refusal.
- Proposed a **Perception–Adoption–Policy** diagnostic protocol with matched text-only, OCR-only, and OCR-then-answer controls for more reliable evaluation of local VLMs.

## Experience

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**Zenbase Technologies (Singapore)**

**Dec 2025 – Present**

*Software Engineering Intern*

*Remote*

- Built and maintained staging infrastructure and automated **CI/CD pipelines** for a **Dockerized** monorepo used across backend and product workflows.
- Implemented asynchronous **callback workers** for webhook-heavy integrations, including **Nylas** and **Meta APIs**, improving reliability of real-time agent workflows.
- Developed data-sync and automation logic for **GoHighLevel (GHL)** integrations supporting lead qualification, outreach, and CRM updates.

**iHub - AWaDH (IIT Ropar)**

**Oct 2025 – March 2026**

*Entrepreneur in Residence (EIR)*

*Rupnagar, Punjab*

- Worked on **Kisaan Mithraa**, helping translate Agri-Tech research into AI product for Indian agriculture use cases.
- Prepared and presented product roadmaps and technical updates to stakeholders, including a **GOI delegation** from **MeitY** and agriculture/education ministries.

**Annam.ai**

**Jun 2025 – Oct 2025**

*Research Intern - AI Systems (Supervised by Dr. Sudarshan Iyengar)*

*Rupnagar, Punjab*

- Built modular classification and inference pipelines for the **Sugam** video platform, supporting large-scale model training and evaluation workflows.
- Worked with **NVIDIA H200 & H100 GPU** infrastructure to run and optimize AI workloads for agriculture-focused applications.

**Stack Wealth**

**Apr 2025 – May 2025**

*Intern - Flutter Developer*

*Remote*

- Ranked as the **#2 contributor** to the **Athena** application, merging **50+ PRs** across product features, bug fixes, and performance improvements.
- Built user-facing Flutter features including analytics views and biometric authentication flows using **Clean Architecture** patterns.

**Moxie Hawk**

**Feb 2025 – Mar 2025**

*Flutter Developer (Contract)*

*Remote*

- Built a full-stack e-scooter rental application with phone OTP authentication, live vehicle tracking, and QR-based unlocking.
- Structured the Flutter codebase around **Clean Architecture** to keep authentication, maps, and booking flows modular and maintainable.

- Developed responsive frontend pages for a wellness application using **Next.js**, with a focus on clean UI and mobile-friendly layouts.
- Integrated REST APIs for dynamic content delivery and collaborated with the team through sprint planning, reviews, and iterative fixes.

## Projects

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### **OpenLearn** | *React, Node.js, Redis, PostgreSQL, Docker, AWS*

- Architected a microservice-oriented LMS serving **500+ users** via 100+ endpoints, featuring an asynchronous Redis-based task queue.
- Established a full DevOps pipeline on **AWS EC2** using Docker for CI/CD, maintaining a consistent **99.8% application uptime**.

### **FernKit SDK** | *C++, WebAssembly, Emscripten, Python*

- Engineered a 0-dependency C++ graphics framework from scratch with an immediate-mode rendering pipeline and custom layout system.
- Developed the **Terra CLI** and associated tools to automate project scaffolding and one-command builds for WebAssembly and X11.

## Open Source Contributions

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**APIDash** (#1121 - Open, #918 - Open): Engineered Hurl file parsing via Flutter Rust Bridge (FFI) and fixed background media leakage in **IndexedStack** routing using Flutter lifecycle hooks (**TickerMode**).

**AppFlowy.IO** (#8261 - Merged, #8278 - Open): Resolved rapid-navigation screen flickering via UI-level click throttling and BLoC-level event deduplication, and refactored shortcuts UI layout.

**asdf-vm** (#2245 - Open): Architected a staged installation pipeline using POSIX atomic renaming in Go to prevent corrupted toolchain states during interrupted downloads (**SIGINT/SIGKILL**).

## Achievements and Extracurricular

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- **Reviewer, FMSD @ ICML 2026**: Reviewed submissions for the ICML workshop on Foundation Models for Structured Data.
- **Winner (AWS & Qyrus Tracks), HackCBS 8.0**: 1st place in 2 tracks; selected for onsite finale (top 400) out of 15,000+ applicants.
- **1st Runner-Up**, Level Supermind Hackathon – Created SoulBuddy.ai, an AI-powered astrological platform among 23000+ participants.
- **2nd Runner-Up** at IEEE PEC × Prajna AI Hackathon (2024) - Developed IPQS, an intelligent document analysis system, recognized for innovative AI implementation among 60+ teams.
- Invited as a **Mentor** for the state-level 'Bit and Build' Hackathon, personally guiding and evaluating **30+ participating teams**.
- Designed and instructed a **14-day intensive Flutter & Firebase Bootcamp**, mentoring undergraduates through full-stack mobile development as a **GDSC Core Member**.

## Technical Skills

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**Mobile/Frontend**: Flutter, Dart, Riverpod,GetX, BLoC, Tailwind, React.js, Next.js

**Backend/Databases**: Node.js, Express.js, Redis, Firebase, Appwrite, Prisma, MongoDB, PostgreSQL

**Blockchain / Web3**: Solidity, Foundry, ethers.js, Web3.js

**Systems**: C, C++, Python, Rust, Bash

**Tools, Infra DevOps**: AWS, Docker, CI/CD, Git, GitHub, NGINX, Arch Linux