

# Dev Aggarwal

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## Startup Founder • AI Systems Engineer

Founder-engineer with 8+ years of experience building AI products, developer platforms, and consumer applications from zero to production. Strong across Python, Django, React, TypeScript, Flutter, APIs, infrastructure, and applied AI systems. Best at shipping end-to-end products quickly, designing pragmatic architecture, and turning frontier AI capabilities into reliable workflows used by real customers.

### Gooley.AI 2023 - Present

#### *Founder & CTO*

- Building Gooley.AI, a low-code orchestration platform for collaborative, multilingual, measurable AI workflows and agents deployed via API, WhatsApp, web widgets, Voice/IVR and more.
- Built and scaled a [fully self-hosted GPU infra](#) & API platform to support thousands of API calls per day; designed a memory offloading strategy that allowed us to deploy roughly 20 models on a single GPU while keeping cold starts near real time.
- Led customer-facing AI deployments across agriculture, public services, health, education, HVAC solutions and SEO for organizations including the Gates Foundation, Rockefeller Foundation, Wellcome Trust, Royal College of Art, Goethe-Institut, British Council, United Nations IOM, the City of Seattle, and Fandom.com
- Led development of production AI workflows spanning RAG, evaluations, function calling, web search, code execution, speech recognition, translation, text-to-speech, image/video generation, and live integrations with external systems.
- Helped evolve the platform to support the latest frontier and open models across OpenAI, Anthropic, Google, Meta, Mistral, DeepSeek, and regional/open-source providers, all while maintaining backwards compatibility over 3 years of breaking provider changes and a [flexible eval system](#) entrusted by orgs to keep up with changing demands and models.
- Shipped product capabilities including workspaces, version history, public workflow pages, embeddable React web widgets, real-time IVR, multilingual speech pipelines, analytics, and agent evaluation tooling.
- Built a [custom UI rendering](#) engine for python combining streamlit's speed of iteration and experimentation with production grade horizontal scaling and server side rendering.

### Dara.network 2020 - 2023

#### *Technical Founder*

- Built an ad-free alternative to Slack, WhatsApp, LinkedIn & Discord for social change makers and artists, from scratch in Django & NodeJS, supporting iOS, Android & Web from a single Flutter codebase.

- Scaled the software platform to support 5000 users, 80k messages, \$100k in ad-free revenue, and 50 partner institutions including the renowned German Goethe Instituts and the British Council.
- Engineered a battle-tested notification delivery system which led to a 60% month-on-month retention of users on Dara.
- Built the initial prototypes and helped raise a Techstars seed round of \$120k, and \$400k in VC funding from Blume, J4 Ventures, Union Bay Partners & other Angels.
- One of the first beta testers of GPT-3 APIs, which later led me to the creation of **RadBots** - a collection of interactive video bots created by renowned authors and playwrights that was featured at the Science Gallery in London.

## **IoTReady**

2019

*Freelance developer*

- Wrote composable app “modules”, which were used to inject a specific piece of functionality into multiple white-labelled flutter apps for B2B clients, such as **ANS technologies**.
- Included modules -
  - Authentication via AWS Cognito
  - Pub/Sub messaging for controlling hardware via AWS IoT
  - Configuring WiFi access points on hardware devices via Gecko OS HTTP APIs

## **Jaaga Labs**

2018

*Freelance developer for Joovv*

- Built a cloud-connected companion app in flutter for an ESP32 micro-controller-based red light therapy device.
- Designed a space-efficient data interchange wire protocol for communication between ESP-32 and the mobile app over Bluetooth.
- **flutter-rx-ble** - Built and released a Bluetooth library for flutter. This was more reliable and faster than other libraries available for flutter at the time.

*Freelance developer for Meghshala*

- Worked with an NGO to develop a Flutter app for elementary schools in rural India, used by tens of thousands of students with limited internet access and 50\$ smartphones to access exceptional study material.
- Configured the backend for content delivery on AWS services, viz. DynamoDB, Cognito, AppSync. Also wrote flutter libraries for these services.
- **network\_file** - Built and released a peer-to-peer networking library that proved essential for students and teachers with limited internet access to share lessons with each other.

## **Make Academy**

2017

*Tech Founder*

- Built a CBT (Computer based testing) platform for IIT-JEE and NEET aspirants from scratch in Django and HTML/CSS/JS.
- Engineered an image resizing algorithm which helped migrate 1000s of scanned question papers to an admin dashboard for teachers.

- Installed make academy as a SASS platform for 10 institutes used by 100s of students to access practice quizzes, scores and performance breakdowns visualized using Chart.js
- Designed a multi-tenant database schema using Postgres which allowed us to deliver a white-labelled product to multiple institutes from the same server instance reducing operating costs by 10x
- [flutter\\_pdf\\_viewer](#) - Built and released one of the very first performant PDF libraries for flutter, used to display encrypted lessons and embedded videos in a white-labelled app by institutions.

## **Projects**

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- Won 1st place in the ScaleAI track at OpenEnvHackathon, hosted with Cerebral Valley and SHACK15, for building an OpenEnv-compatible RL environment simulating enterprise HR onboarding and offboarding across 6 enterprise apps and 25 tools. (2026)
- Won 2nd place at the Google Cloud x Searce GenAI Hackathon, an AI voice assistant that can answer calls, schedule meetings, and execute simple actions (2024)
- Built a chatbot which won 2nd Prize at a Hackathon hosted by General Electric (2018).
- Proven track record of consistent open-source contributions over 10 years.
- [Suchak](#) - Fast technical indicators library written in numba. I used it to deploy stock market trading algorithms that yielded ~100% returns per month in backtesting.
- [Oscilloscope](#) - A tool for visualizing real-time data, built on top of matplotlib.
- [Music playing glove](#) - Built a contraption using ESP8266 and magnetometers to simulate a digital theremin.
- [ZProc](#) - Experimental multi-tasking framework for python.
- 8,000 points on [stack overflow](#) :)

## **Education**

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- Sir MVIT, Bangalore (2017 - 2021)  
*Bachelor of Computer Science And Engineering*
- DAV Public School, Kota, Rajasthan (2015 - 2017)  
*Physics, Chemistry, Mathematics & Computer Science*
- Saint Paul's Sr. Sec. School Mala Road, Kota, Rajasthan (2006 - 2015)