Build with AI

Firebase Studio: *AI*ding your App Development

Google Developer Groups
Cloud San Fernando Valley

Founder and CEO, MK Partners

13+ year GDG Organizer

Technical Architect, Consultant, Software Engineer, Author, Speaker

@the1mattkaufman

Google Developer Group

Community-based (volunteer run) organizations that bring together developers interested in learning about and using Google's technologies

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Code of Conduct

The GDGs of Greater Los Angeles are each dedicated to providing a harassment-free and inclusive event experience for everyone regardless of gender identity and expression, sexual orientation, disabilities, neurodiversity, physical appearance, body size, ethnicity, nationality, race, age, religion, or other protected category. We do not tolerate harassment of event participants in any form. We take violations of our policy seriously and will respond appropriately.

All participants must abide by the following policy:

1. Be excellent to each other. We want the event to be an excellent experience for everyone regardless of gender identity and expression, sexual orientation, disabilities, neurodiversity, physical appearance, body size, ethnicity, nationality, race, age, religion, or other protected category. Treat everyone with respect. Participate while acknowledging that everyone deserves to be here -- and each of us has the right to enjoy our experience without fear of harassment, discrimination, or condescension, whether blatant or via micro-aggressions. Jokes shouldn't demean others. Consider what you are saying and how it would feel if it were said to or about you.

2. Speak up if you see or hear something. Harassment is not tolerated, and you are empowered to politely engage when you or others are disrespected. The person making you feel uncomfortable may not be aware of what they are doing, and politely bringing their behavior to their attention is encouraged. If a participant engages in harassing or uncomfortable behavior, the event organizers may take any action they deem appropriate, including warning or expelling the offender from the event with no refund. If you are being harassed or feel uncomfortable, notice that someone else is being harassed, or have any other concerns, please contact a member of the event staff immediately.

All participants must abide by the following policy:

3. Harassment is not tolerated. Harassment includes, but is not limited to: verbal language that reinforces social structures of domination related to gender identity and expression, sexual orientation, disabilities, neurodiversity, physical appearance, body size, ethnicity, nationality, race, age, religion, or other protected category; sexual imagery in public spaces; deliberate intimidation; stalking; following; harassing photography or recording; sustained disruption of talks or other events; offensive verbal language; inappropriate physical contact; and unwelcome sexual attention. Participants asked to stop any harassing behavior are expected to comply immediately.

4. Practice saying "Yes and" to each other. It's a theatre improv technique to build on each other's ideas. We all benefit when we create together.

GDG Benefits

1. Meet amazing people
2. Free training
3. Learn new skills
4. Access to cloud credits
5. Opportunities to attend Google Events
6. Possibility to get publicity/recognition by Google

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GDG Requirements

1. Sign an NDA
2. Follow code of conduct
3. Volunteer consistently
4. Organize 4+ meetups per
    year
5. Co-organize annual
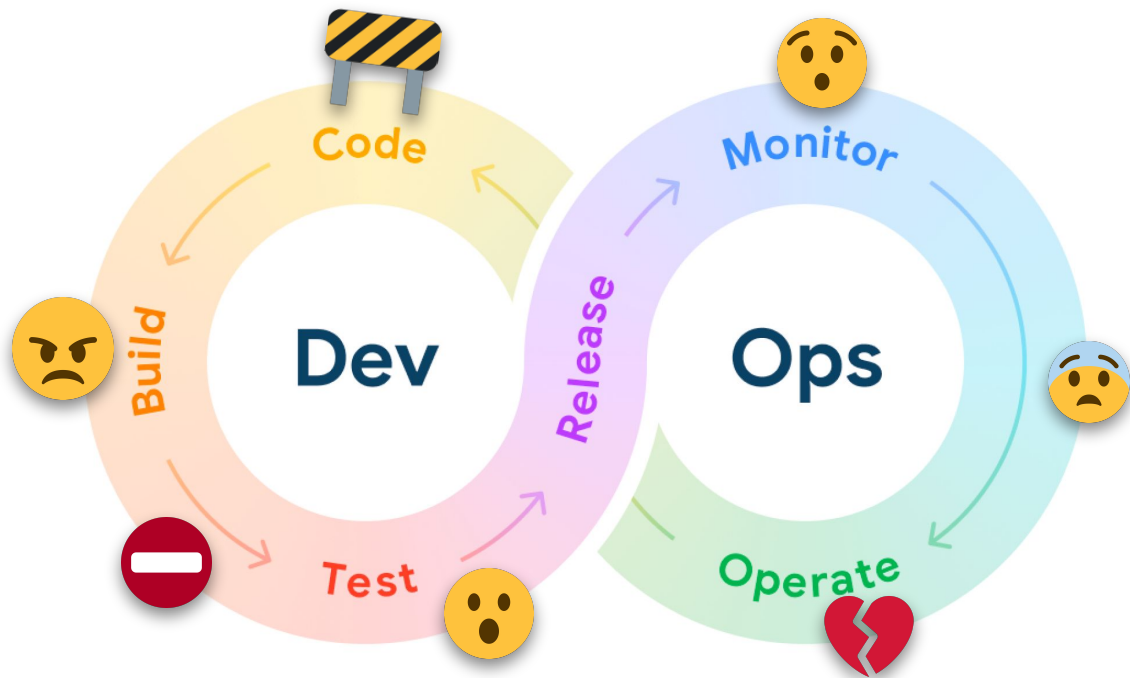   DevFest and IWD Events

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Build with AI

Introduction

Dev

Ops

Code

Build

Test

Release

Monitor

Operate

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Developer · AI

Developer uses AI-assistive tools to **write code more efficiently**

Developer **collaborates with AI** to design and build applications with **supervision of codebase and architecture**

Developer **sets goals for AI** to create applications with **little to no supervision of codebase or architecture**

By 2028, 75% of enterprise software engineers will use AI code assistants (Gartner, April 2024**)**

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Today, more than a quarter of all new code at Google is generated by AI, then reviewed and accepted by engineers. This helps our engineers do more and move faster."[1]

Sundar Pichai

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We ran an experiment at Procter and Gamble with 776 experienced professionals solving real business problems.

We found that individuals randomly assigned to use AI did as well as teams of two people and were happier as well.
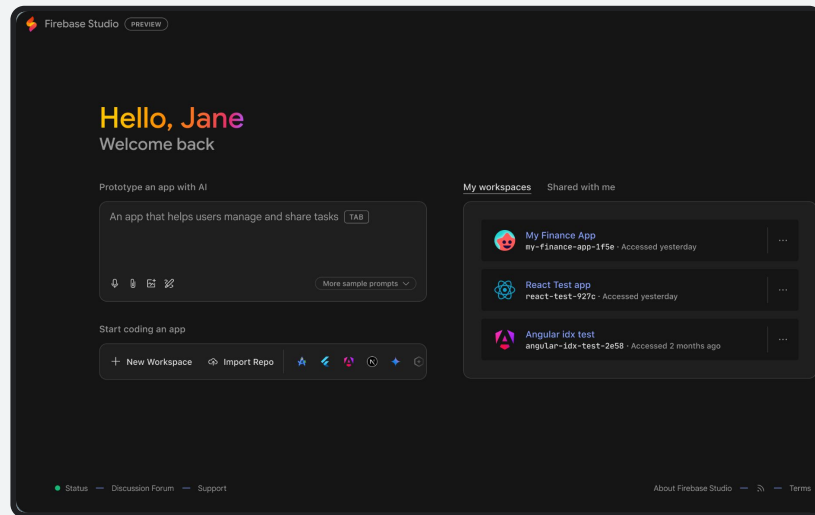
Ethan Mollick

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Introducing Firebase Studio

Firebase Studio is an integrated and extensible agentic workspace to build, run, and manage web apps, cross-platform mobile apps, backend services, and more.

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Firebase Studio Usage Options

Simple

You can use Firebase Studio as just a Cloud hosted instance of VS Code.

Flexible

The Gemini Code Assist Extension is preloaded and ready for you to use with your existing projects.

Powerful

Firebase Studio's Prototype mode will build an app from your prompt and even deploy it to Google Cloud Platform.

Web-based

Deep Google Integrations

Streamline app dev workflows.

Preconfigured Environments
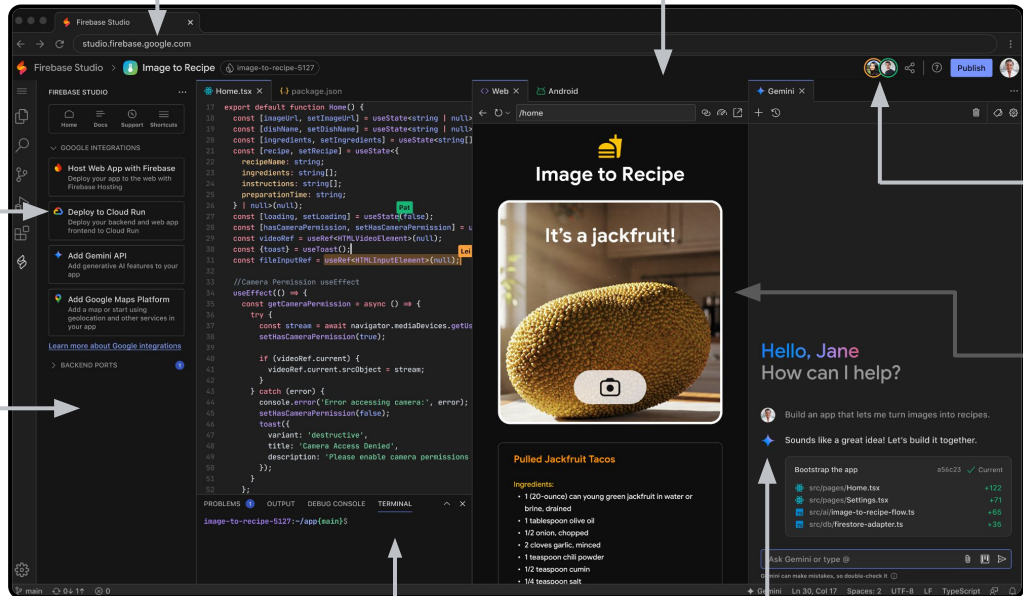
Full cloud VM

Built on VS Code

Designed for collaboration

Live preview

AI Assistance

Hello, Matt
Welcome back

Prototype an app with AI

An app that generates poems from photos [TAB]

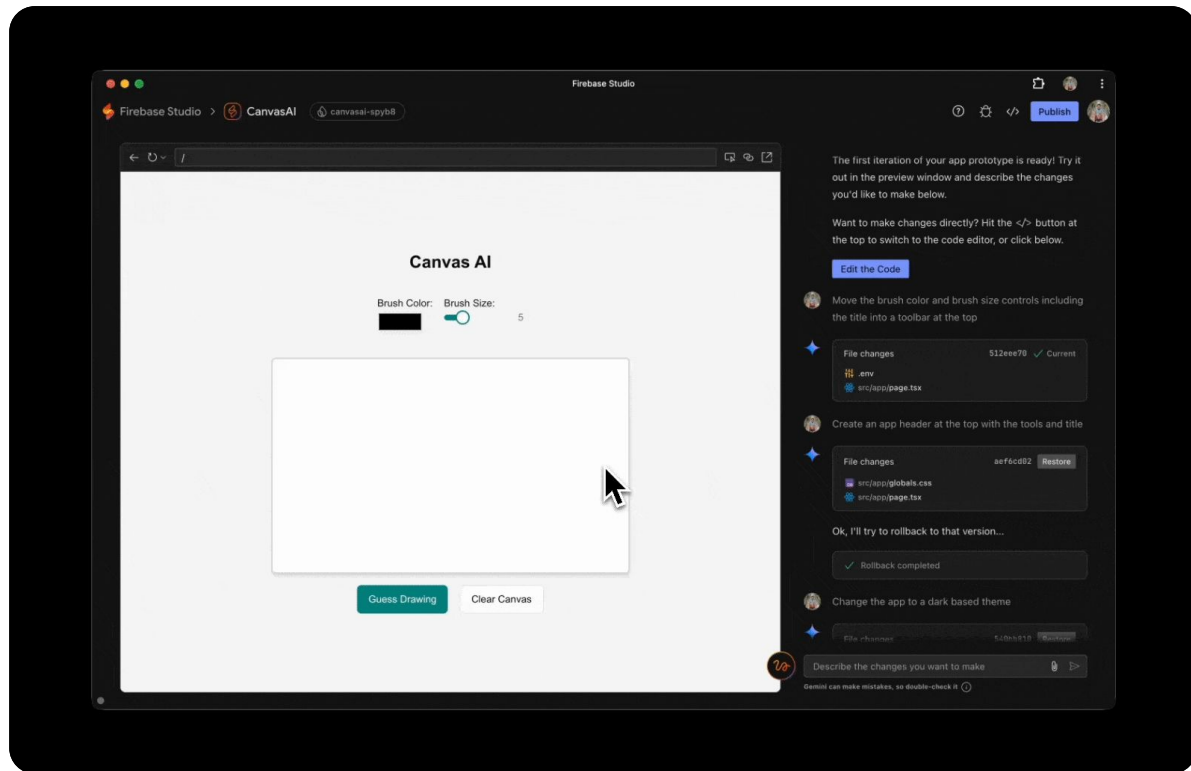[More sample prompts ⌄]

Start coding an app

[+ New Workspace]   [☁ Import Repo]   [GO] [Python] [Java] [.NET] [Android] [Flutter] [Angular]   [›]
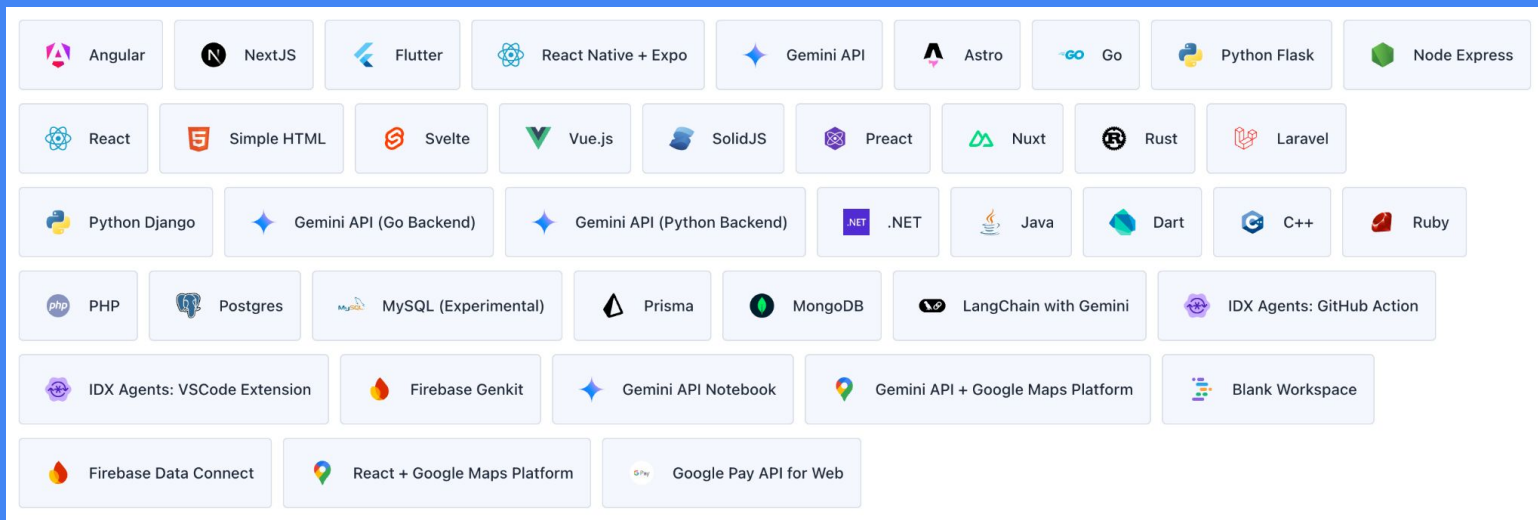
Quickly Deploy to Firebase

We can **quickly deploy** our application we created to **Firebase App Hosting.**

The wizard will guide you on picking the correct project, billing account and kick of the **new or updated deployment.**

Frontend, Backend, Mobile, and more!

We provide a (growing) collection of templates that help you get up and running with the most popular tech stacks.

Angular	NextJS	Flutter	React Native + Expo	Gemini API	Astro	Go	Python Flask	Node Express

React	Simple HTML	Svelte	Vue.js	SolidJS	Preact	Nuxt	Rust	Laravel

Python Django	Gemini API (Go Backend)	Gemini API (Python Backend)	.NET	Java	Dart	C++	Ruby

PHP	Postgres	MySQL (Experimental)	Prisma	MongoDB	LangChain with Gemini	IDX Agents: GitHub Action

IDX Agents: VSCode Extension	Firebase Genkit	Gemini API Notebook	Gemini API + Google Maps Platform	Blank Workspace

Firebase Data Connect	React + Google Maps Platform	Google Pay API for Web

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Live Demo

For information on Responsible AI

https://ai.google.dev/responsible
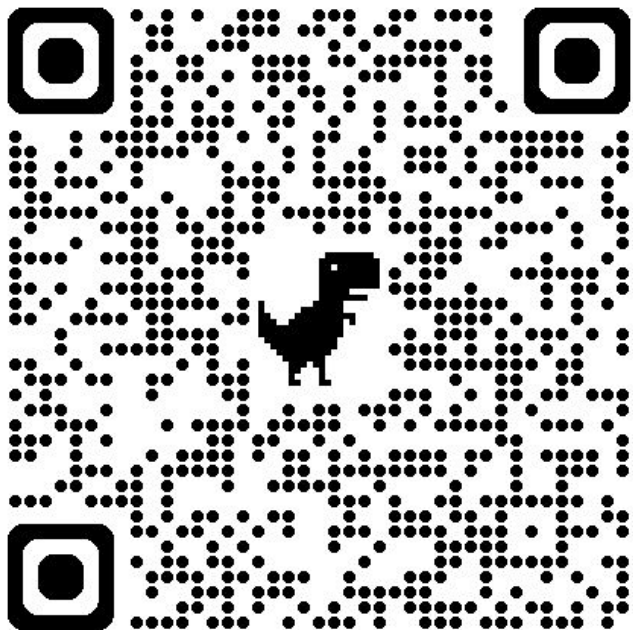
Upcoming Events

1. June 6 - Google Build with AI **Virtual** Mixer
2. June 19 - Pasadena Tech Happy Hour **(In Person)**
3. June 24 - Google Build with AI **In-Person** Workshop
4. July 17 - Pasadena Tech Happy Hour **(In Person)**
5. July 30 - Google Build with AI **In-Person** Workshop
6. Nov 14 - DevFest Los Angeles **(In Person)**

Interested in giving a talk? Let us know!
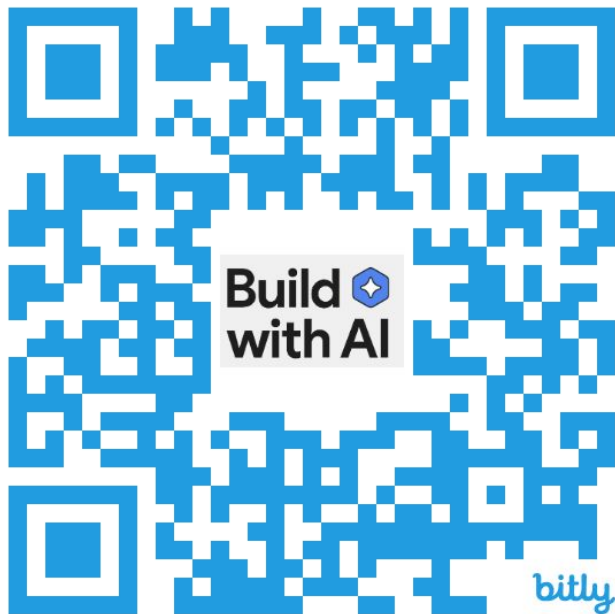
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Scan the QR code to enter our raffle!

https://forms.gle/AkjRNU6DF1goBmcU6

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As a Google Developer Program member, showcase your earned badges on your profile and share them on social media. **Learn more** https://developers.google.com/profile/help/badges

bitly

Scan the QR code to receive your attendee badge!

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Thank you

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