



Samarth Agarwal

Engineer with a strong product mindset, delivering AI-powered solutions across platforms

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📍 Moradabad, Uttar Pradesh.

🌐 <https://samarthagarwal.in/>

Profiles

🔗 [LinkedIn](#)

[agarwalsamarth](#)

🐙 [GitHub](#)

[samarthagarwal](#)

📺 [YouTube](#)

[thesamarthagarwal](#)

📖 [Medium](#)

[samarth_agarwal](#)

Skills

🧙 AI & Agents

LangChain, LangGraph, LangFuse, N8N, OpenAI APIs, Markov Chains, Agentic workflows, A2A, On-device models, Prompt Engineering, A2UI

📱 Mobile Technologies

Advanced

Flutter, Dart, Android, iOS, iOS App Extensions, Android Keyboard, Windows Phone, Accessibility, Kotlin, Swift, FFI, Ionic

🌐 Web Technologies

Advanced

Web sockets, HTML5, JavaScript, CSS3, Angular, React, Browser Extensions, Jest, DOM, APIs, REST, Node, Typescript, Embedded JS runtimes

🔧 Tools and Misc.

Intermediate

Git, Docker, Firebase, CI/CD, C# .Net, JAVA, Figma, Jira

Certifications

Agentic AI with LangChain and

LangGraph

Feb 2026

IBM

(Credential ID: ETI600EKG5CA)

Fundamentals of Building AI Agents

Feb 2026

IBM

(Credential ID: 4LYX5TBEI00F)

Open source

Flutter Screens

An open-source UI library for Flutter with 5K+ stars on GitHub

Publications

Building Mobile Apps with Ionic 4 (Book)

Packt Publishing

Building Games with Flutter (Book)
Packt Publishing

Staff Software Engineer specialising in AI-powered mobile and cross-platform products. Built agentic systems using LangChain, LangGraph, and CrewAI, including an autonomous QA agent and a natural-language analytics interface, alongside on-device ML features like Markov-chain next-word prediction. Track record of leading teams, architecting end-to-end systems, and shipping at scale in async remote environments.

Professional Experience

QuillBot Jaipur, India (Remote)
Staff Software Engineer September 2021 - Present

- Staff Software Engineer
 - Leading Development of the mobile apps for Android and iOS that include the App, Keyboards and the on-screen Assistant.
 - Designed and built a next-word prediction system for the iOS keyboard using a Markov chain model with unigram, bigram, and trigram storage, enabling personalised on-device text predictions without server round-trips.
 - Built an autonomous QA agent for the Android app using LangChain and LangGraph that independently identifies and reports regressions, reducing manual testing overhead.
 - Built a natural-language analytics agent with LangGraph that allows PMs to query the product data lake (and Amplitude) in plain English, accelerating data-driven decision-making.
 - Improved developer experience by integrating AI tools, automating daily engineering workflows, and building CI/CD pipelines, notifications, and alerting systems for the app team.
 - Mentoring the team, as the most senior member of the team, while developing complex and cutting-edge AI powered features.

- Associate Engineering Manager
 - Established the foundations of the mobile team, laid out the apps' architecture, set up CI/CD pipelines, built processes and owned releases.
 - Completely owned the development of Android and iOS apps, end-to-end, from a high-level design of a requirement to production and beyond.
 - Mentored a team of four developers, fostering a culture of technical excellence, collaboration and constant growth within the team. Reached 1M+ users on Android and 500K on iOS.
- Technical Lead
 - Led a team of 5 amazing engineers and built multiple challenging and amazing features of the Chrome extension for QuillBot, including support for Google Docs from the ground up, leading to a user base of more than 3.5M weekly active users.
 - Built several powerful features, including GenAI on GMail, within the Chrome extension and also set up the automation testing frameworks to reduce regressions.

<https://quillbot.com/>

Jesus Kids Oslo, Norway (Remote)
Lead Developer April 2017 - August 2021
Worked as a software consultant and full-stack developer for Jesus Church (Oslo, Norway) and developed mobile/web apps using Google Flutter, Firebase, TypeScript, NodeJS, and Angular.

Internshala/Kodeco Remote
Author and Training Partner 2015 - Present
Working as an Online Educator/Training Partner/Content Creator on Udemy, Internshala, and KnowledgeHut (Upgrad) for AngularJS, Angular, Ionic, JS, and Flutter courses with a combined student base of more than 20000 around the world.

Also working as an author on the Flutter team at Kodeco.com.

Freelance Jaipur, India (Remote)
Software developer and consultant July 2012 to September 2017
Worked on numerous projects across tech stacks and programming languages. A few examples are fee managements systems for CBSE schools, accounting softwares for SMBs. Most of these softwares are still in use till date.
<https://samarthagarwal.in>

Education

Uttar Pradesh Technical University Bachelor's in Technology
Information Technology August 2008 to May 2012

Springfields College 2006
ICSE (Class X) - 78% (Science, Mathematics, CS)

ISC (Class XII) - 85% (Physics, Chemistry, Mathematics, CS)