



# Tito Agudelo

Senior Software Engineer | AI-Driven Technical Lead | Full-Stack & Cloud Architect

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## 🗨️ SUMMARY

Engineer with **12+ years of experience building scalable full-stack and cloud solutions** across web, mobile, and serverless environments. Specialized in **AI-augmented software delivery**, integrating **OpenAI, Anthropic Claude, AWS Bedrock, and n8n** automation pipelines with **Next.js, Node.js, and GraphQL** architectures.

Expert at designing developer workflows powered by **OpenAPI Codegen, React Query, and custom CI/CD systems on Azure and AWS**. Recognized for leading cross-functional teams that deliver fast, stable, and maintainable products — from **enterprise insurance platforms** to **AI-powered booking systems**.

Passionate about bridging traditional engineering with **agentic AI systems, memory persistence, and generative workflows** that scale human productivity.

## 📁 PROFESSIONAL EXPERIENCE

**Lead / Senior Software Engineer | AI & Automation Specialist (Freelance)**

01/2016 – Present  
Remote, Bogotá CO

*Toptal | BrainTrust | The X-Team | Truelogic | GlobeDesk | Epam System* 📧

**Description:** As a Lead Software Engineer, Mobile Engineer specializing in React Native, and Full Stack Engineer at Toptal and other companies, I played a pivotal role in developing cutting-edge web and mobile applications for diverse clients. My responsibilities included collaborating with cross-functional teams, translating project requirements into elegant solutions, and ensuring the scalability, maintainability, and performance of codebases through modern frameworks and development practices.

### Achievements:

- Architected **multi-environment pipelines** using Azure DevOps, CircleCI, and GitHub Actions — cutting deployment time by 60%.
- Integrated **OpenAPI Codegen** to auto-generate React Query components and GraphQL schemas with authorization-aware fetchers.
- Built **agentic automation workflows** in n8n to orchestrate LLM calls, backend webhooks, and Supabase event triggers.
- Designed and deployed **AI-powered admin dashboards** and **customer emulation flows** using Next.js + OpenAI API for MyAdmin (Insurance SaaS).
- Developed **MVP's**, a beauty booking platform using Next.js + Supabase with dynamic pricing logic, WhatsApp integration, and Conekta payments.
- Implemented **Azure API Management & Function Apps** for secure service orchestration between web and mobile platforms.
- Built internal AI-driven developer assistant (FastAPI + OpenAI + vector memory), enabling conversational retrieval and workflow generation.

### Key Achievements:

- Reduced API build overhead by **40%** via GraphQL schema modularization and generated queries.
- Delivered production pipelines handling thousands of records/day with automated rollback strategies.
- Mentored 15+ junior engineers globally via Toptal Mentor Network.

### Frontend Engineer

01/2013 – 01/2016

Aranda | Globant | GLM School [🌐](#)

Bogotá, Colombia

**Projects Overview:** Development efforts for multiple projects, including Tribune Publishing, Bizagi, Gimnasio La Montaña, and Aranda Software, with a focus on frontend engineering and UI/UX design, also Django & Python for Rest API services.

### Key Achievements:

**Tribune Publishing Project:** Developed and enhanced an internal project for Tribune Publishing, utilizing JavaScript plugins to improve functionality and user experience. Collaborated with cross-functional teams to gather requirements and implement responsive UI components, resulting in a streamlined application interface.

**Bizagi Project:** Contributed to the development of Bizagi plugins using AngularJS, implementing Test-Driven Development (TDD) practices to ensure code quality and maintainability. Collaborated closely with backend teams to integrate frontend components and enhance user interfaces across multiple products.

**Gimnasio La Montaña Project:** Spearheaded the development of a school management platform using Angular 2 and AngularJS, focusing on delivering high-quality UI experiences and seamless data exchange with backend APIs. Implemented responsive UI components and conducted thorough testing to ensure application stability and performance.

**Aranda Field Services Project:** Played a key role in the development of a field personnel management solution using Backbone.js, collaborating with backend engineers and UI/UX designers to create intuitive and visually appealing frontend interfaces. Conducted performance optimization and implemented caching strategies to improve application performance and user experience.


**Technologies:** JavaScript, HTML, CSS, AngularJS, Angular 2, Backbone.js, TypeScript, Rest API services, Adobe Suite.

## CORE COMPETENCIES

### Frontend

React, Next.js 15, TypeScript, Zustand, React Hook Form, Tailwind, Ant Design, Jest, Cypress, VueJS, Angular, Gatsby, Redux, etc

### Mobile

React Native, Expo, React Native Cli, Detox, TestFlight , Transporter App, Android Studio, XCode.

### Backend & APIs

Node.js, Express, GraphQL, OpenAPI Codegen, Go, Python (FastAPI), Supabase, REST/RPC APIs, CMS (Contentful, Sanity, Contentstack), ORM Prisma.

### Cloud & DevOps

### Tooling & Design

Figma, Retool, Contentful, Contentstack, Three.js, Shopify, Wordpress, Adobe Suite

### Database & Auth

PostgreSQL, MySQL, Firebase, Supabase Auth, NextAuth, Cognito

### AI & Automation

OpenAI API (GPT-4/5), Claude 3.5, LangChain, CrewAI, n8n, AWS Bedrock, Vector Stores, RAG Pipelines, Agentic Orchestration

### Leadership &

### Mentorship

Toptal Global Mentor, The Collab Lab, Technical Interviews, Code Reviews, Architecture Design

## EDUCATION

**Bachelor's Engineer Degree**  
*Universidad Piloto De Colombia*

2007 – 2012  
Bogotá, Colombia

At Universidad Piloto de Colombia, I pursued a Bachelor's degree in Computer Science, where I gained comprehensive knowledge and practical skills in various aspects of computer science and software engineering. The program provided a strong foundation in algorithms, data structures, programming languages, and computer architecture. Additionally, I engaged in hands-on projects I developed expertise in software development, system design, and software engineering principles, preparing me for a successful career in the dynamic field of technology.

## LANGUAGES

**Spanish** — Native/Bilingual

**English** — Fluent  
B2

## COURSES

### **Web Development**

*Team Tree House*

01/2011 – 2013

### **Introduction to Databases**

*Stanford Online*

2011 – 2011

### **Introduction to Artificial Intelligence**

*Stanford Online*

2011 – 2011

## PROJECTS

### **With Your Tribe**

*React Native, Typescript, Electron, React, Node JS, Prisma*

2022 – 2023

"With Your Tribe" is a multiplatform application designed to enhance communication and collaboration within modern teams. With a focus on providing intuitive tools and seamless connectivity, With Your Tribe aims to streamline team communication across various channels, including text, voice, video, and real-time messaging. By leveraging cutting-edge technologies and innovative features, With Your Tribe will empower teams to communicate effectively, share ideas, and achieve their goals with agility and efficiency for human workers or distributed teams.

**Task Rabbit Mobile App** [↗](#) 2020 – 2020  
*React Native, Detox, Typescript*  
The objective of this project is to enhance the TaskRabbit mobile application to improve user engagement, streamline task management, and optimize performance. TaskRabbit is a platform that connects users with local service providers for various tasks and errands. The enhancements will focus on adding new features, refining existing functionalities, and ensuring a seamless user experience across different devices.

**Google Fiber** [↗](#) 2017 – 2017  
*Web Components, Vainilla JS, Grow & Kintaro, ES6*  
The goal of this project is to redesign and revamp the Google Fiber website to provide users with an intuitive, informative, and visually appealing online experience. The new website will serve as a platform for users to explore Google Fiber's services, learn about available plans, and access support resources. The redesign will focus on enhancing usability, optimizing performance, and improving overall user engagement.

**MyAdmin (Agility Insurance)** 03/2025 – Present  
*Next.js 15 + GraphQL + Azure Pipelines*  
Role-based portal integrating AI-powered global search and impersonation tools using OpenAI API.

## ORGANIZATIONS

**Toptal Global Mentor Program** 2016 – present  
*Global Mentor*  
Toptal Global Mentors: Education Everywhere  
The Toptal Global Mentors program is designed to help novice developers around the world improve their skills and create new career opportunities. In our diverse, yet interconnected global industry, cutting-edge skills are always in short supply. The program aims to bridge the gap between skilled software engineers in developed countries and students from across the globe, who aspire to join the industry.

**The Collab Lab** [↗](#) 2020 – 2020  
*Mentor*  
The Collab Lab increases access to web development jobs for early-career developers and, in particular, people in under-represented groups in tech by providing experiential skills training in software team collaboration and career management.