

Tamer El Zein

AI Lab Team Lead · Software Engineer

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SUMMARY

Software engineer with 4+ years of experience, leading the AI Lab at Futurate. Previously the main developer of Mobile for Jira and Desktop App for Jira, cross-platform Flutter apps built with BLoC. Builds multi-agent AI systems with tools such as Google ADK, Pydantic, A2A and RAG, and ships independent products: two iOS apps on the App Store, a home-services platform, an open-source Flutter package and an AI nutrition bot.

EXPERIENCE

AI Lab Team Lead, Futurate

Jul 2025 – Present

- Lead the AI Lab team, taking AI products and internal tools from idea and prototype to production.
- Design and build multi-agent AI systems, using frameworks and tools such as Google ADK, Pydantic, Agent2Agent (A2A), RAG and Vertex AI.
- Set technical direction, review code and mentor engineers on the team.

Software Engineer, Infosysta Apps

Jul 2022 – Jul 2025

- Main developer of Mobile for Jira and Desktop App for Jira, architecting cross-platform apps in Flutter with the BLoC state management pattern.
- Built a multi-agent AI system to automate and streamline workflows, using tools such as Google ADK, RAG, Vertex AI, React and FastAPI.
- Mentored teammates through code reviews and knowledge sharing, keeping code quality high.

Full-Stack Developer Intern, EDM, Beirut

Jun 2021 – Sep 2021

- Built responsive front-end components with AngularJS, Material Design and Bootstrap.
- Built back-end features with ASP.NET MVC, MS SQL Server, Insight.Database and GraphQL, and integrated the ShipHero API.

PROJECTS

Tadween – iOS app, App Store

tadween.tamerelzein.com

A private expense tracker: snap a receipt, type a sentence or speak in Arabic dialect to log a transaction. Runs fully on device, with no account or servers.

Visufit – iOS app, App Store

apps.apple.com/app/visufit

An AI app for virtual try-on, room decor and photo editing.

Ma3ak – Home-services platform

ma3ak-lb.com

A platform for booking home services in Lebanon, easily and safely.

AnimateZWidget – Open-source Flutter package

pub.dev/packages/animate_z_widget

Adds rotation, flip and scale animations to any Flutter widget, with presets or custom curves. Flutter, Dart.

NutriPulse – AI Telegram bot

t.me/NutriPulseBot

AI nutrition and fitness coach: meal analysis from photos, diet advice and workout plans. Python, Telegram Bot API.

Earlier work: Smart Gas Station with license plate detection (Flutter, Google ML Kit, Firebase); Let's Mingle dating app with real-time calls (Flutter, BLoC, Firebase, Agora); Flappy Bird AI with NEAT (Python).

SKILLS

AI and agents: Multi-agent systems, Google ADK, Pydantic, Agent2Agent (A2A), RAG, Vertex AI

Mobile: Flutter, Dart, BLoC, Firebase, Firestore

Web and back end: Python, FastAPI, Flask, React, JavaScript, Node.js, HTML, CSS, GraphQL, MS SQL Server, MySQL

Tools and practice: Git, Jira, Figma, solution design, code review, mentoring

EDUCATION

Bachelor of Engineering in Computer Engineering, Beirut Arab University – Debbieh, Lebanon 2018 – 2022