

Humbat Jamalov

 Baku, Azerbaijan

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 [My Portfolio](#)

 [Camalzadeh](#)

 [Humbat Jamalov](#)

Adaptive Software Engineer with a strong focus on mathematical optimization, clean code, and high-performance development. Extensive experience in building complex mobile applications and scalable systems, with a passion for solving intricate engineering problems. Dedicated to delivering maximum efficiency and technical excellence in every project, from research-driven analysis to real-world product deployment.

– (prepared: 01.03.2026)

/Experience

/Middle Mobile & Backend Developer

May 2024 – February 2026: Confidential (IT Company) | Hybrid | [Details](#)

- **/Mobile Developer**

Developed and deployed **3** high-scale Flutter applications, starting with a **comprehensive 1-year full-stack project** built on **Clean Architecture**. Engineered a sophisticated **State -> Cache -> Backend** synchronization flow with a custom fallback mechanism using **Google Translate API** for dynamic data persistence. Expertly handled complex media synchronization (TTS, images, text), **JWT-based authentication**, **Firebase Auth**, **PDF generation**, and **Remote Config**. Automated the entire delivery cycle via **CI/CD pipelines** for continuous testing and automated **APK/AAB** generation.

Demonstrated rapid development by delivering a **modern, second application within 3 months**, featuring native **Google Auth** (independent of Firebase), **Deep Linking**, and a dedicated **Mobile Admin System**. Developed a **third specialized application** focused on complex data visualization, engineering a **custom data-fetching engine** to process intricate datasets synchronously across multiple **Dynamic Themes**.

- **/Backend Developer**

Architected and managed robust backend systems using **Django** and **PostgreSQL**, optimizing for high-performance data handling and complex relational mapping through **Model Inheritance**. Engineered real-time capabilities by integrating **Redis** for caching and rapid data processing. Developed highly customized administrative environments using **Jazzmin** and **Unfold**, incorporating granular **Role-Based Access Control (RBAC)** and integrated **CRM** functionalities. Built a dynamic multi-language content engine to automate the generation of legal and informational pages (Privacy Policy, Terms, About) across several locales.

Integrated a diverse suite of specialized third-party services, including **Gemini AI API for advanced data analysis**, and **Google Translate API**. Leveraged **Resend** for transactional emails, **Unsplash API** for dynamic media, **AWS Cloud** for infrastructure, and **Firebase** for unified **Authentication** and **Cloud Messaging (Push Notifications)**. Streamlined operations by implementing **CI/CD pipelines** for automated server deployment, rigorous testing, and proactive **logging/backup** strategies. Furthermore, managed app behavior dynamically through **Remote Config** and orchestrated **Deep Linking** logic to enhance user engagement and navigation across platforms.

/IT Intern

April 2024 – August 2024: Buta Group Azerbaijan | Virtual | [Details](#)

- **/IT Intern**

Gained foundational experience in frontend development by building responsive web projects and a **JavaScript** Todo application. Focused on **Responsive** design principles and explored the operational logic of **ERP and CRM** systems to understand data-driven business workflows. Evaluated **No-Code** platforms for rapid prototyping and developed professional collaboration skills within a real-world corporate IT environment.

/Co-Founder

August 2025 – Present: GuardianX | Hybrid

- **/Sustainable Design Hackaton | [Details](#)**

Awarded 3rd place for the conceptualization and rapid development of a sustainable, multi-app ecosystem during an intensive 2-day competition. Designed a modular architecture featuring multiple integrated sub-apps and sophisticated **AI-driven** pest detection modules. Conducted deep technical analysis and comparative evaluation of various **AI models** (including **Gemini**) to optimize detection accuracy. The project was highly commended by the jury for its technical execution, scalability, and innovative approach to sustainable agriculture.

- **/Startup School 3 | [Details](#)**

Developed the 'GuardianX' MVP from scratch, including a mobile application built with **Flutter** and a web platform developed using **React**, deployed on **Vercel**. Engineered a robust backend infrastructure leveraging **Firebase (Firestore, Storage, and Auth)** for seamless data management. Integrated **Gemini AI** for real-time pest detection and automated record-keeping. Completed 45 hours of international mentorship, refining the business model and technical roadmap for investor-ready presentations and final 'Demo Day' selection.

/Projects

/InMyTime | Software Engineering Project | Team Lead

Led the development of a real-time polling application built with **Next.js** and **MongoDB**. Managed the development team using **GitHub Projects** for task delegation and code reviews, ensuring high-quality contributions and project alignment. Architected the full **CI/CD** pipeline for automated testing and multi-platform deployment, including domain configuration and production setup. Integrated **Ably** for real-time updates, **Framer Motion** for animations, and **TypeScript** for type-safe development. Engineered the core logic for aggregated availability calculation and developed RESTful API routes for poll management and anonymous voting. [Try it](#), [InMyTime Github](#).

/Signa | Kotlin Multiplatform Contest

Developed and submitted a cross-platform security scanner for the **KotlinConf Contest**, built entirely with **Kotlin Multiplatform (KMP)** and **Compose Multiplatform**. The application enables real-time monitoring and analysis of radio signals (WiFi, Bluetooth) across **Android, Windows, macOS, and Linux**. Engineered a robust **Clean Architecture** (Data, Domain, UI) and integrated **Google Gemini AI** to perform automated security audits and threat detection (e.g., identifying hidden trackers). Implemented **Room KMP** for local persistence, **Koin** for dependency injection, and **Ktor** for networking. Designed interactive data visualizations for signal frequency history and optimized the UI for both mobile and desktop environments using a single shared codebase. [Download and try it](#), [Signa Github](#).

/More | [My Github Repositories](#)

/Research

/Resolving Interclass Similarities in Sign Language Using Adaptive Loss Function

Participated in research focused on **Sign Language Recognition** to address interclass similarity challenges. Contributed to the research and analysis of **Adaptive Transformers, Triplet Loss, and Two-Stream architectures**. Co-authored the research paper, analyzing methodologies and scientific articles to support the project's technical framework. [Details here](#) , [Young Researchers Conference](#).

/Achievements

/Be Advanced level Flutter Developer

Udemy | Kanan Yusublu | November, 2025

[Verification Link](#)

/ICPC Azerbaijan Regional Contest 2025

Third Award | October, 2024

[Certificate](#)

/Recommendation Letter

UFAZ | Igor Peretta | Software Engineering | October, 2025

[Recommendation Letter](#)

/More | [Academic](#)

/Education

/French-Azerbaijani University (UFAZ) | Computer Science

Bachelor Degree | 98% GPA | 2023-2027 | [Transcripts](#)

/Physics, Math and Informatics oriented lyceum (FRITL)

High School | DIM Score: 632/700 | 2018-2023

/Courses

/Constructor University | Advanced Computer Science Skills

Top 5 | September 2024 | On-site in Ada University | [Details](#)

/İlkin Mehdiyev | Advanced Backend Programming

Java, Spring Boot, Software Engineering | 9 months | April 2024 | [Details](#)

/Codestar | Fundamentals of programming

Rustam Atakisiyev | C++, Algorithms | 1 month | July 2024 | [Details](#)

/Skills

/Languages: Java 8+, C/C++, Dart, Python, Javascript, {Php, Kotlin}

/Frameworks: Flutter, Django, Spring Boot, Kotlin Multiplatform (KMP), Next.js

/Data: MySQL, PostgreSQL, MongoDB, Redis, Firestore

/Mobile: State Management(Provider) , App signing, App Icon & Splash Screen config, Permissions, Deep Linking, Local Caching (Shared Preferences), Asset optimization, Error Handling

/Backend: RESTful APIs, Swagger, Redoc, Schema, Remote Config, CMS, OOP, Model Inheritance

/Security: JWT, Session Based Auth, OAuth, Rate limiting, CORS, CSRF, RSA, Block Cipher Modes

/Tools: Postman, Jazzmin, Unfold, Git, Github, Maven, Gradle, Flutter DevTools, SSH

/DevOps: CI/CD, Docker, Actions Runner, Selfhost(Hetzner), Vercel, Cloud Run, Render, AlwaysData, Namecheap

/Cloud & Realtime: AWS(S3), Firebase(Authentication, Storage, Firestore, Messaging), Github Containers Registry (GHCR), Google Cloud, Ably, Resend

/Languages

- **/Azerbaijani:** Native
- **/Turkish:** Native or Bilingual Proficiency (C2)
- **/English:** Upper-Intermediate (B2)
- **/French:** Beginner (A1)