

# Nijat Muzaffarli



## Front-End Developer / Software Engineer

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**Links** [Portfolio - nicat.me](#), [Github](#)

## 01 PROFILE

Highly motivated Software Engineer with 6+ years of experience, specializing in front-end web development (ReactJS, Next.js, TypeScript) and proficient in full-stack (Node.js), mobile (iOS, Flutter), and desktop (Electron) application delivery. Proven ability to deliver high-quality, scalable, and user-centric solutions using modern technologies. Passionate about crafting intuitive user interfaces, clean code, front-end performance optimization, and innovative AI integration.

[nicat.me](#)

## 02 EMPLOYMENT HISTORY

09/2023 — Present

### Senior Software Engineer at sPresto Co.LTD

Seoul

- Developing a cross-platform (**Windows/Linux**) desktop security monitoring application using Electron.js, React.js, and low-level languages (multiple-monitor screen capturing under 20ms, system events monitoring, etc.), focusing on data exfiltration prevention and system service integration.
- Integrated **AI-powered webcam/screen analysis** (TensorFlow.js, MediaPipe, OpenVINO) for real-time threat detection with hardware-level optimizations.
- Developed and maintained robust MSI/DEB installers, code signing, and secure auto-update systems for enterprise environments (**LG Energetics, HIMS, D'Crypt + Client Companies**). The projected usage is for over 10,000 employees.
- Doing code reviews and integration support for iOS and Flutter applications, and maintaining the internal tools of the company, which are written in TypeScript and Python.

09/2021 — 09/2023

### Mid-Level iOS & Flutter Developer at sPresto Co.LTD

Seoul

- Led development of **3 native iOS** (Swift, UIKit, SwiftUI) and **2 Flutter applications**, from concept to App Store deployment and maintenance. Currently, all are collectively serving over **25,000+ users per month**.
- Implemented complex features including on-device AI (TensorFlow Lite), custom camera functionalities, real-time chat (Stream), and payment integrations (Bootpay).
- Collaborated with UI/UX teams to deliver pixel-perfect, high-performance mobile experiences, managing the full app lifecycle.

10/2020 — 09/2021

### Junior iOS Developer at sPresto Co.LTD

Seoul

- Contributed to iOS application development using Swift and UIKit, focusing on UI implementation and core feature support.
- Participated in debugging, code reviews, and QA processes, gaining foundational experience in the mobile development lifecycle.

## 03 INTERNSHIPS

Jun 2019 — Sep 2019

### Internship - Junior Web Developer at Aysu Co. LTD.

Baku

- Contributed to the development of a responsive sales management system using HTML, CSS, JavaScript, and jQuery, ensuring cross-browser compatibility and a seamless user experience on various devices.
- Created interactive frontend components with HTML and styled them using CSS to ensure user-friendly interfaces.
- Successfully collaborated with senior developers to integrate frontend components with backend APIs, real-time data with websockets and ensuring data integrity.

## 04 PROJECTS

Mar 2025 — Present

### Epocia - Knowledge Visualizer

A **Next.js**-based personal **web application** leveraging AI to research complex topics and visualize them as interactive knowledge graphs on an infinite canvas.

- **AI-powered topic research and interactive graph exploration** with React Flow, infinite canvas, contextual node panels, and streaming API support.
- **Rich export and sharing options**, including Markdown/PDF/DOCX export, Supabase-backed shareable links, and client-side caching for performance.
- **Enhanced user experience** with responsive design, light/dark themes, keyboard shortcuts, persistent settings, and an integrated MDX blog.
- **Technologies:** Next.js, React, TypeScript, React Flow, Tailwind CSS, Supabase, Cloudflare
- **Link:** [epocia.com](https://epocia.com)

Feb 2025 — Present

### YAOT - Online Toolbox

A personal comprehensive **web suite** of 95+ free, client-side web utilities for developers, designers, and general users, prioritizing privacy and speed.

- **Comprehensive suite of 95+ local-first online tools** including PDF, image, text, time, number, unit, and developer utilities with drag-and-drop support and interactive search.
- **Advanced PDF and document capabilities** like merging, encrypting, converting between formats, and visual page management with minimal backend reliance.
- **Technologies:** Next.js, React, Ant Design, Web APIs, BullMQ
- **Link:** [yaot.io](https://yaot.io)

Jan 2024 — Present

### MonitorDog - AI Security Monitoring Client

MonitorDog is an **AI-based** anti-media capture security software solution for **Linux and Windows** platforms:

- It utilizes most of the **AI capabilities** to capture abnormal user behaviors, and suspicious body positions, scan the environment of the user to **detect mobile phones**, DSLR cameras, and secret cameras, prevent unauthorized access to PC by **face verification**, and detect numbers of people around the device and additional secret features.
- Any suspicious event is being logged and sent to management servers, providing desktop captures, webcam captures, and many more details.
- Built with **ElectronJS, ElectronForge, React, Tensorflow**.

Nov 2021 — Present

### CheckIn

- The CheckIn is a native **iOS app** that service that combines a **lodging reservation** system with protection insurance against secret video recording and a fast media consumption-focused review systems such as **Tik-Tok or Instagram Reels**.
- I have built the entire iOS client application with a Reactive MVVM pattern with **Modular architecture** for the sake of scalability and a clean codebase. For a smoother user experience, many optimizations have been done on UI and data processing such as using custom UI collections with extensive caching mechanisms for cell size and data reuse in cells.

- Additionally, I have created a **Modular UI Component System** for re-usability and decreasing code repetition. UI Component system consists of **60+ custom UI** components, colors, fonts, and layout spacing values.

Oct 2020 — Present

### Relief's Map

- Relief's Map is a native iOS app that has been developed for detecting the Hidden Cameras by using **AI** and creating a social community to help others as well. Currently, the iOS application has more than **10 thousand monthly active users** in Asian countries.
- The backbone feature of the project is detecting the lens-like objects with **Tensorflow Lite**, magnetic and Infrared detection methods on the iOS application.

### YouWho

- As a member of sPresto company, I have maintained the previous codebase and have built 70% of the remaining application features for iOS Mobile Client in the native development environment as a solo iOS developer.

## 05 SKILLS

**Programming Languages:** TypeScript, JavaScript (ES6+), Swift, Dart, Python (Familiar), Rust (Familiar)

**Frontend:** React, Next.js, Remix, HTML5, CSS3, Tailwind CSS, Shadcn/UI, Ant Design, React Query, Zustand, Context API, Redux, P5.js, Responsive Web Design, Web Accessibility (WCAG/ARIA)

**Backend:** Node.js, Express.js, REST APIs, PostgreSQL, Prisma, Supabase, Firebase, Cloudflare Workers, BullMQ

**Mobile:** iOS (UIKit, SwiftUI, Combine), Flutter, Core Data, AVFoundation, TensorFlow Lite (Mobile), App Store Connect, Fastlane

**Desktop:** Electron.js, IPC, Native APIs, MSI/DEB Packaging, Auto Updates, Cross-Platform Builds

**AI/ML:** TensorFlow.js, OpenVINO, MediaPipe, TFLite

**DevOps & Tools:** Git, Docker, GitHub Actions, Vercel, Sentry, Webpack, Vite, Figma, Notion

## 06 EDUCATION

Mar 2016 — Dec 2020

### Korea University

Seoul

Bachelor Degree

Graduated with **Computer Science** from the top three universities in South Korea. Specialized in Human-Computer Interaction and Software Systems. Graduation project on Security Storage System with Secure Enclave on iOS.

Sep 2009 — May 2014

### Shirvan Turkish Private High-School

Shirvan

High School

Graduated from one the most prestigious high school in Azerbaijan.

## 07 LANGUAGES

English



Korean



Azerbaijani



Russian



Turkish



## 08 COURSES

Nov 2014 — Dec 2015

### Korean Language Course at Korea University