Emil Abdullayev, Hardware and Software Engineer

CONTACTS   01

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SUMMARY   02

I AM A 2ND YEAR COMPUTER ENGINEERING STUDENT AT BAKU HIGHER OIL SCHOOL(BHOS) AND A HIGHLY MOTIVATED AND DEDICATED COMPUTER ENGINEER. FIRST IN THE COUNTRY IN THE BLOCK UNIVERSITY ENTRANCE EXAM OF THE 2023 ADMISSION YEAR (400/400 POINTS), PRESIDENTIAL SCHOLAR. AS A COMPUTER ENGINEER I HAVE STRONG CONCEPTUAL UNDERSTANDING OF COMPUTER STRUCTURE, ALGORITHMS AND DATA STRUCTURES, COMPUTER ARCHITECTURE, AND HARDWARE AND SOFTWARE, WHICH I HAVE BEEN IMPLEMENTING IN NUMEROUS PROJECTS, HACKATHONS, AND OLYMPIADS. I AM A FLEXIBLE INDIVIDUAL ABLE TO WORK IN SMALL AND LARGE TEAMS, AND A FAST LEARNER WHICH HELPS ME TO QUICKLY UNDERSTAND AND IMPLEMENT REQUIRED LOGIC.

SKILLS   03

C#, .NET, ASP.NET, Blazor, WPF, WinForms	DevOps
C	Containerization, Docker
C++	Continuous Integration and Continuous Delivery
Python	Nginx, IIS
Low lever programming, microcontrollers programming	Java, SpringBoot
Electronics, Arduino, ESP32, Hardware Engineering	Linux, Ubuntu
UART, SPI, I2C, ESP32-NOW; HTTP(S), WebSocker communication protocols	Design Patterns
JavaScript, JQuery, Node.js, React, Next.js, React Native	Code Refactoring and work on Legacy
Sql, MySql, PostgreSql, MsSql, psql cli	System and network programming
MongoDb, mongosh cli	Communication Protocols
Caching, hybrid caching, Redis (redis cli)	Version control system (Git cli, GitHub, GitLab)
Authentication & Authorization, JWT	REST API, JSON, Swagger
HTML, XAML, CSS, Tailwind, Pug, Handlebars	Data Structures and Algorithms
ORM (EF Core, Dapper, MongoDb driver, Mongoose)	OOP
Decentralized file share networks, IPFS	Secure development, best practices
Architectures (N-Layer, CQRS, DDD, Microservices)	Relational and non-relational databases
Cloud services (Azure, AWS, GoogleCloud, DigitalOcean)	Teamwork (Agile methodology), Task distribution

EXPERIENCE   04

2023.11 – 2024.04

TEDxBHOS – Baku, Marketing Communications Manager
Developed and implemented marketing communications plans for products and services.
Created customized campaigns to target specific customer segments.
Designed promotional materials for social media platforms.

2024.04 - Present

TEDxBHOS – Baku, Board Member
Collaborated with executive team members.
Responsible for technical support, design, and multimedia editing/management.
Monitored changes in technology to enhance organizational efficiency and competitiveness.

2024.06 - 2024.09

Enactus BHOS, Fullstack Developer & DevOps Engineer
Developed a full web application using ASP.NET.
Managed CRUD operations, Azure Blob storage for multimedia, and email-based ordering system.
Created a Web API backend and Blazor WebAssembly frontend.
Deployed on Google Cloud VM with nginx, established HTTPS communication, and obtained SSL certificates using Certbot.

2024.09 - Present

Miras – Social Entrepreneurship Platform, CTO
Designed and developed the platform to support creatives with disabilities.
Implemented backend infrastructure, multimedia hosting, and CMS features.
The project secured 2nd place at Enactus Azerbaijan 2024.

2024.06 - 2024.06

Baku ID, Brella Staff & Volunteer
Improved user networking through Brella Admin Panel.
Sent event emails, push notifications, and analyzed user interaction data.

2024.09 - Present

CyberLP, Backend Developer and Software Architect
Developed a secure REST API using Java Spring Boot framework.
Engineered a blockchain and IPFS-based solution for decentralized file management.
Engineered a file system, implemented CRUD over files and folders, as well as file share and role based file access control.

2024.11 - Present

SC4N, co-founder
Built mobile and backend applications enabling users to scan barcodes for detailed food product insights.
Features include account management, favorites, product search, and community networking.

2024.11 - Present

iTarla, Software Developer
Built and maintained the iTarla mobile app and backend infrastructure. Established connection with metrics from sensors via firebase real-time database.
Contributed to measurable outcomes: up to 70% water savings and 40% increased efficiency.

2024.10 - 2025.03

SYP(Society of young programmers), Programming Mentor
Mentored BHOS students in programming on Python, algorithms, software development, and project execution.

2024.10 - 2024.12

ICPC(International Collegiate Programming Contest), Contestant
Qualified for and participated in ⅛ and ¼ finals with a competitive programming team.
Solved complicated algorithmic questions regarding data structures and algorithms.

2025.04 - Present

Empower Me Program, Participant
Engaged in intensive entrepreneurial and leadership training with a focus on social impact, innovation, and inclusive technology.
Developed a growth mindset and enhanced collaboration, pitching, and business development skills.

2025.01 - Present

IV Tusi - "Gələcək üçün bacarıqlar" Incubation program, Participant
Participated in comprehensive entrepreneurial and leadership development, emphasizing social impact, innovation, and inclusive technology.
Fostered a growth-oriented mindset while improving skills in collaboration, pitching, and business development.

2025.01 - Present

SmartGlasses - Teknofest Cyprus 2025 Finalist!, co-founder and CTO
I will present this project on a global stage in Cyprus Teknofest 2025 as finalist, on May 1-4.

Designed and developed SmartGlasses to assist with language translation and navigation for tourists and business travelers.
Integrated a micro-projector for real-time text translation and a micro-camera for scanning written content.
Utilized Google Maps for navigation assistance, providing seamless support in unfamiliar environments.
Utilized an OLED display and a heads-up display (HUD) to create an augmented reality (AR) effect.
3D printed the ergonomic frame for comfort and a custom fit, ensuring a practical and user-friendly design.

2024.12 - Present

TKTA(Təhsildə Keyfiyyət Təminatı Agentliyi), Software Developer
Website Development – Designing and developing a dynamic website tailored to TKTA's needs, ensuring it is user-friendly and scalable.
Admin Panel – Creating and implementing an admin panel for managing content, user permissions, and system settings, providing administrators with full control over the website's functionality.
Video Call Integration – Developing and integrating video call functionality into the website, enabling real-time communication for users, such as students and educators, through video conferencing.
SIMA Integration – Integrating the SIMA system for seamless data exchange and authentication within the website, ensuring compatibility with government standards and regulations.

LANGUAGES   05

English	C1 (IELTS 8.0)
Azerbaijani	Native
Russian	Native

EDUCATION   06

2023-2028

BAKU HIGHER OIL SCHOOL
Computer Engineering

ItStep Academy
Software Development

CERTIFICATIONS AND REWARDS   07

Presidential Scholarship (2023)
CPA: Programming essentials in C++ (2021)
STEP IT Bootcamp on Python Fundamentals (2020)
ELTS Band 8.0 (2024)
TED Certificate of organizer (2024)
Refactoring guru (2024)
Microsoft: Develop an ASP.NET Core web app that consumes an API (2024)
Baku ID 2024 IT volunteer
COP 29 volunteers online training session completion
Certificate of achievement – the 2024 ICPC qualification
Certificate of achievement – the 2024 ICPC ¼ finals
Finalist certificate, COP29 Global Green Innovation Challenge's Emerging Technologies Demo Day Event, powered by ABB
Finalist invitation to Teknofest 2025 Cyprus to present my Hardware and Software integrated SmartGlasses Project