



Mykhailo Kapustin

Work permit: German **Nationality:** Ukrainian **Date of birth:** 23/06/2000

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ABOUT MYSELF

I've been passionate about **programming since childhood**, constantly exploring **AI, automation, and system architecture**. I specialize in **backend development, high-load systems, and AI integration**, with deep expertise in **AI agents, large language model (LLM) applications, and neural network integrations**.

Beyond tech, I value **precision and focus**, enjoy **tea ceremonies**, and follow a **healthy lifestyle**. AI isn't just work for me—it's a **fascination**, and I'm always experimenting with **new automation techniques and intelligent systems** to push the boundaries of what's possible.

WORK EXPERIENCE

Chief technology officer

ASRP.tech [01/05/2023 – Current]

City: Baikonur | **Country:** Kazakhstan

I built and managed the entire technical infrastructure, covering backend and frontend development, server setup, and IT infrastructure management. I developed AI algorithms for data analysis, contributing to research initiatives. Over 18 months, I created multiple products, including an educational platform, a Telegram bot for dream journaling, microservices for IT infrastructure, and a media platform for research dissemination. Additionally, I implemented Kapustin's Marker Algorithm for dream content analysis and developed an internal cryptocurrency. My responsibilities extended to research processing, client acquisition, bug fixing, mentoring junior developers, managing projects, and handling investor relations, partnerships, and payment integrations.

Software developer

LAB325 [18/07/2021 – 19/04/2023]

City: Odesa | **Country:** Ukraine

I developed scalable back-end solutions and system architectures for mobile and web applications, focusing on API development, database optimization, and cloud infrastructure. My work spanned educational platforms, fitness apps, smart plant care, and privacy-focused communication tools. Responsibilities included implementing authentication systems (OAuth2.0, JWT), optimizing databases (PostgreSQL, ClickHouse, Elasticsearch), integrating GraphQL APIs, and deploying Dockerized infrastructures. Additionally, I contributed to machine learning-based plant identification, real-time chat applications, and gamified fitness tracking, ensuring high availability, performance, and security across all projects.

Software developer

Provectus [16/04/2021 – 17/07/2021]

City: Odesa | **Country:** Ukraine

I worked on refactoring a large-scale platform used for managing tenders in Ukraine. My responsibilities included optimizing backend services using modern PHP frameworks, designing efficient PostgreSQL database structures, and integrating third-party APIs to enhance automation. I also improved infrastructure by configuring Nginx and Dockerized deployments, streamlining CI/CD processes, and implementing secure authentication with role-based access control (RBAC). Additionally, I collaborated with frontend developers, DevOps, and QA teams, conducted code reviews, and provided architectural guidance to ensure a high-performance, scalable, and secure system.

Software developer

Coelix [13/08/2020 – 15/04/2021]

City: Odesa | Country: Ukraine | Website: <https://yourtorahtutors.org> | Business/sector: Education

I led the transition from WordPress-focused development to full-scale custom software solutions. I assembled and managed a development team, enabling the company to take on larger, more complex projects. This shift expanded Coelix's service offerings, attracting new clients and successfully delivering three major projects. My contributions helped establish Coelix as a software development company capable of building high-quality, scalable applications, positioning it for future growth in automation and digital transformation.

Software developer

Ephyros [11/02/2020 – 12/07/2020]

City: Kiev | Country: Ukraine

I worked on QPQ International, a deal advisory platform for green energy investments, connecting sustainable energy project developers with investors and financial institutions. My role involved back-end development using Laravel and PostgreSQL, optimizing database performance, and building a matching system to connect projects with investors. On the front end, I developed an intuitive Vue.js dashboard for project tracking and partnership management. I also configured Nginx servers for security and performance, implementing role-based authentication. My contributions ensured the platform's scalability, security, and efficiency, facilitating global investment in sustainable energy projects.

Software developer

HYS Enterprise [10/09/2018 – 02/02/2020]

City: Odesa | Country: Ukraine

I led the development and maintenance of the corporate website, building a scalable full-stack architecture with modern web technologies. I optimized performance for fast load times, implemented security best practices, and ensured a responsive design across all devices. Collaborating with designers, marketing teams, and leadership, I aligned the website with branding, sales, and hiring strategies. I developed career and portfolio sections, integrated communication channels, and continuously maintained and enhanced features based on business needs. My work contributed to establishing a strong digital presence that supported business growth and engagement.

Software developer

Top Agent [01/01/2018 – 09/09/2018]

City: Odesa | Country: Ukraine

I developed a full-cycle travel booking system that integrated flights, taxis, hotels, and payments into a seamless platform. I built a custom backend architecture using PHP and SQL, ensuring efficient data processing and secure transactions. On the front end, I designed user-friendly interfaces for an intuitive booking experience. I also implemented a cost-effectiveness analysis tool, automated report generation, real-time API integrations for reservations, and a secure payment gateway. This role required expertise in full-stack development, with a strong focus on performance, security, and usability.

Software developer

PHP-academy [07/07/2017 – 31/12/2017]

City: Odesa | Country: Ukraine

I developed a custom website engine from scratch, creating a scalable foundation for web projects. I built and deployed fully functional websites, implementing core back-end functionalities in PHP and SQL while integrating modern front-end technologies for improved user experience. I also focused on performance optimization, database query tuning, and security enhancements to protect against vulnerabilities. This role provided hands-on experience in full-cycle web development, from engine creation to deployment and ongoing maintenance, refining my problem-solving and optimization skills.

Software developer

SuperMediaAds [01/06/2016 – 11/11/2016]

City: Odesa | Country: Ukraine

I developed data aggregation tools to collect and process information from multiple advertising networks via their APIs, optimizing back-end services in PHP and SQL for seamless integration. I created automated scripts for real-time tracking and performance analysis of mobile ad campaigns, improving reporting accuracy and campaign efficiency. Additionally, I managed affiliate marketing operations, integrated multiple advertising platforms into a unified dashboard, and developed custom reporting solutions for campaign optimization. This role combined back-end development with business strategy, ensuring efficient aggregation and monetization of mobile app promotion campaigns.

EDUCATION AND TRAINING

Bachelor's degree in Automation and computer-integrated technologies

O. S. Popov Odessa national academy of telecommunications [01/09/2017 – 01/07/2021]

City: Odesa | Country: Ukraine | Field(s) of study: Information and Communication Technologies (ICTs) | Level in EQF: EQF level 6

I completed my Master's degree in Automation and Computer-Integrated Technologies, specializing in advanced control systems and automation solutions. My graduate research focused on developing an optimal control system for a vacuum evaporation plant in the sugar industry. This work involved extensive mathematical modeling, dynamic process analysis, and the design of decentralized control systems, showcasing my ability to apply theoretical knowledge to practical challenges.

Master's degree in Automation and computer-integrated technologies

O. S. Popov Odessa national academy of telecommunications

City: Odesa | Country: Ukraine | Field(s) of study: Information and Communication Technologies (ICTs) | Level in EQF: EQF level 7

I completed my Master's degree in Automation and Computer-Integrated Technologies, specializing in advanced control systems and automation solutions. My graduate research focused on developing an optimal control system for a vacuum evaporation plant in the sugar industry. This work involved extensive mathematical modeling, dynamic process analysis, and the design of decentralized control systems, showcasing my ability to apply theoretical knowledge to practical challenges.

LANGUAGE SKILLS

Mother tongue(s): Ukrainian | Russian

Other language(s):

English

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DIGITAL SKILLS

Back-end

WordPress and Wix / SQL / Web Development / JWT Auth / SQL / NoSQL 10 years / Redis / Socket.io / Object-Oriented Programming / PostgreSQL and MariaDB / RESTful api / Elasticsearch (Basics) / PHP Framework Laravel / MySQL / Artificial Intelligence in Business / Html, Java, CSS / JAVAScript / With 3+ years of experience in NoSQL (MongoDB, Elasticsearch) / JSON / Experience with PHP, SQL, HTML, CSS, JavaScript / Javascript(Nodejs, ExpressJs) / Atlassian stack (Jira, Confluence, ...) / REST API management / GraphQL API / GitLab, GitLab CI / JavaScript

Dev-Ops

Node JS / HTML / Apache NGINX / Apache, Nginx, Passenger Phusion, PM2 / OAUTH2.0 / Git / Git, Bitbucket, Gradle, CI, Jenkins, JIRA, Docker / Github / Set up AWS , GCP , Digital Ocean environments

Front-End

CSS / Nginx / PM2 / HTML, JavaScript, MySQL, NGINX / State Management - Vuex, Pinia - Expert / Html+CSS+JS / HTML 5 / Vue.js (2 &3) / Pinia / Vue/Nuxt.js

PROJECTS

[05/04/2023 – Current]

ASRP Media – Analytical & Research Media Platform

ASRP Media is a research and analytical platform focused on neuroscience, AI, cognitive science, and consciousness studies. As part of the ASRP ecosystem, it provides expert insights, peer-reviewed studies, and industry reports, bridging scientific research with real-world applications.

As a developer and strategist, I contributed to website development, a custom CMS for research content, a subscription model, SEO optimization, and AI integration for automated analysis. ASRP Media serves as a leading knowledge hub, connecting researchers, innovators, and technology enthusiasts in neurotechnology and cognitive science.

Link: <https://asrp.media/de>

[05/04/2023 – Current]

Arcanum12th – Advanced Educational Platform for Consciousness and Cognitive Studies

Arcanum12th is an educational platform focused on consciousness studies, cognitive science, and mental training. It offers structured courses, AI-driven dream analysis, and research tools to help users master lucid dreaming and enhance cognitive abilities.

As a developer and strategist, I contributed to platform development, course management, AI integration, and the subscription model. I also optimized SEO and growth strategies to expand its reach. Part of the ASRP ecosystem, Arcanum12th integrates neurotechnology and AI-based dream interpretation, providing a cutting-edge space for self-exploration and cognitive development.

Link: <https://arcanum12th.education/de>

[04/04/2021 – 07/07/2021]

Gazer TV – Smart TV Companion Application

Gazer TV is a mobile app that enhances the Gazer Smart TV experience by transforming smartphones and tablets into versatile remote controls. It offers features like remote operation, media streaming, wireless mouse functionality, on-screen keyboard, and screen mirroring for seamless interaction.

I led the development for iOS and Android, ensuring smooth connectivity with Gazer Smart TVs. My contributions included implementing key features, optimizing user experience, and conducting thorough testing for stability and compatibility. The app provides users with an intuitive and convenient way to control and interact with their TVs.

Link: <https://gazer.com/en/>

[09/10/2021 – 01/01/2022]

IzziFit – Smart Workout and Training Plan Application

IzziFit is a mobile fitness app offering personalized workouts, calorie tracking, and gamified fitness experiences. With over 500 exercises, mood tracking, and smart workout suggestions, it supports a holistic approach to health.

I led the development for iOS and Android, implemented secure backend services, and designed gamification features to enhance user engagement. I also optimized performance to ensure a smooth experience across devices. My contributions helped create an intuitive and motivating platform that makes fitness both accessible and enjoyable.

Link: <https://lab325.com/weight-loss-game-for-women/>

[02/01/2022 – 03/03/2022]

Hark – Global Anonymous Chat Platform

Hark is a mobile app enabling anonymous voice and text conversations, providing a safe space for users to share thoughts and connect without revealing their identities. It fosters open dialogue, emotional expression, and meaningful connections through features like favorites and a community rating system.

I led the development for iOS and Android, implementing secure anonymous communication, a user-friendly interface, and features for reconnecting with impactful conversations. My work focused on ensuring privacy, engagement, and a supportive community environment.

Link: <https://lab325.com/anonymos-voice-chat/>

[01/07/2021 – 08/10/2021]

Lill – Intelligent Plant Care Assistant

Lill is a mobile app that helps plant enthusiasts identify, diagnose, and care for their plants with smart reminders and personalized garden management. Users can track plant health, receive tailored care suggestions, and organize their collections.

I led the development for iOS and Android, integrating machine learning for plant identification, building a robust notification system, and ensuring secure data management. I also collaborated on UI design to enhance user experience. My work aimed to create an intuitive and efficient tool for plant care and management.

Link: <https://lab325.com/plants-care-and-identification-app-5/>

[01/07/2021 – 05/04/2023]

Woman Insight – Online Educational Platform

Woman Insight is an online educational platform offering concise, practical courses on personal development, business, relationships, and health. Designed for busy users, lessons are short (up to 15 minutes) and led by experts across various fields.

I developed the official website, implemented a course management system, secured user authentication, and ensured a responsive, high-performance platform. My contributions helped create a seamless and engaging learning experience, making personal growth accessible and efficient.

Link: <https://womaninsight.com/ru/>

[08/08/2020 – 04/04/2021]

Your Torah Tutors – Online Torah Learning Platform

Your Torah Tutors is an online platform providing personalized Torah study sessions via Zoom, using interactive flashcards and tailored teaching methods to enhance comprehension.

I developed the official website, integrated Zoom for seamless online lessons, built a flashcard system for vocabulary retention, and implemented secure user accounts. I also created a feedback mechanism to showcase student progress, ensuring an engaging and accessible learning experience.

Link: <https://yourtorahtutors.org>

[02/02/2020 – 03/07/2020]

QPQ International – Green Energy Project Funding & Advisory Platform

QPQ International is a deal advisory platform connecting green energy projects with investors to accelerate development and financing. It operates globally, supporting sustainability initiatives through project readiness consulting, investor matchmaking, and funding accelerator programs.

I contributed to backend development with Laravel and PostgreSQL, optimized database performance, and built a matching system to connect projects with investors. I also developed a user-friendly Vue.js dashboard, implemented secure authentication, and configured Nginx for performance and security, ensuring a scalable and efficient platform.

Link: <https://qpq.international>

[01/09/2018 – 01/02/2020]

HYS Enterprise – Corporate Website

The HYS Enterprise corporate website serves as the company's official digital portal, showcasing its expertise, services, and job opportunities while acting as a primary contact point for clients and partners.

As a Full-Stack Web Developer, I was responsible for designing, developing, and maintaining the website, implementing both frontend and backend features, ensuring responsive design, optimizing performance and security, and collaborating with designers and marketers to align the site with business goals. My work helped establish a strong digital presence, attracting clients and talent in the IT industry.

Link: <https://www.hys-enterprise.com>

PUBLICATIONS

[2025]

Technological Transformations, Formation of GMS (Global Mental System) and GFS (Global Forecasting System) —“Right-Brain Technologies” Based on Biological Entities with Consciousness, Artificial Intelligence, Quantum Computing, and Blockchain

This study explores methodological approaches to transmitting consciousness states between subjects using advanced neurointerface technologies. It discusses the formation of the Global Mental System (GMS) and Global Forecasting System (GFS), focusing on "right-brain technologies" that integrate biological entities with consciousness and artificial intelligence. The research examines the application of AI algorithms for processing and transmitting data, enabling the classification and analysis of neural information.

Journal of Investment, Banking and Finance

[2024]

The methodology for diagnosing and managing stress developed by Grivtsova, as an independent method and as part of the preparation for inducing lucid dreams within the framework of the “Bancheko Extended Algorithm,” and its application in the “Global Forecasting System,” serves as a means of transferring transcendental states of consciousness within the “Bancheko-Technology Set”

The study explores Grivtsova's stress management methodology both as a standalone approach and as part of Banchenko Extended, a framework for lucid dream induction. The research analyzes its efficacy in stress reduction and dream-state control enhancement.

American Journal of Medical and Clinical Research & Reviews

[2024]

Forecasting Social, Geopolitical, and Economic Events Using the 'Banchenko-Technology'

This study investigates the Banchenko Algorithm and Mnemonic Synchronization for predicting social, geopolitical, and economic events. It examines the link between lucid dreaming and collective consciousness for forecasting significant events. The research introduces a digital system for managing event forecasts and market trends using AI

and dream synchronization techniques, highlighting the innovative potential of combining dream experiences with objective data for high-probability predictions.

Japan Journal of Research

[2024]

The Application of the "Banchenko's Mnemonic Dream Synchronization Method" for the Joint Synchronization of Dream Elements (Including Lucid Dreams), within the Framework of "Blokhin's Dreaming Cell Concept," and the Analysis of the Obtained Results Using the "Kapustin's AI Dream Matching Model."
Corresponding Author

This research investigates the use of Banchenko's Mnemonic Dream Synchronization Method for synchronizing dream elements, including lucid dreams, among participants. It involves analyzing dream journals, utilizing AI for dream correlation, and studying the impact of synchronized activities on dream content. The study highlights the potential of using synchronized dream techniques to enhance dream recall and explore the subconscious.

International Internal Medicine Journal

[2018]

A STUDY OF SOFTWARE DEVELOPMENT TOOLS THAT ARE REQUIRED IN THE JOB MARKET IN UKRAINE AND THE WORLD

This research investigates software development tools needed in the job market. It analyzes global and Ukrainian IT trends, focusing on programming languages and frameworks like JavaScript, Python, and AngularJS. The study highlights differences in tool popularity between Ukraine and other countries, providing insights into current and future IT industry demands, and showcasing my involvement in cutting-edge software development research.

Proceedings of the O S Popov ONAT

CONFERENCES & SEMINARS

[29/07/2024 – 31/07/2024] Berlin

WeAreDevelopers

I attended the **WeAreDevelopers 2024** conference in Berlin, exploring advancements in AI, blockchain, and machine learning. Highlights included the Intel AI Summit, a session on quantum computing, and networking with industry leaders. The event showcased cutting-edge innovations, making it a valuable experience for staying ahead in tech.