

AKBAR JURAEV

Software Engineer · Human-Computer Interaction & AI Researcher · Startup Builder

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AI & Computer Science student at the University of Birmingham (First-Class, Year 1) working at the intersection of research and building. Research interests span human-computer interaction, VR/XR systems, and applied machine learning; engineering work ranges from computer vision in production to autonomous deployment infrastructure. Official IT ambassador between Uzbekistan and the United Kingdom, with the long-term goal of founding a company.

RESEARCH & SELECTED PROJECTS

Error Feedback in Immersive Voice Programming (DreamCodeVR)

Jun 2026 – Present

University of Birmingham · Wizard-of-Oz user study, manuscript in preparation

Research study investigating how users understand, attribute, and recover from AI-generated code errors in virtual reality. Extended a real-time voice-to-code system, in which spoken commands are turned into Unity C# by an LLM and compiled live in-scene, with three controlled feedback conditions: no feedback, an explanatory text panel, and an embodied conversational agent. Designed and built the full experimental infrastructure: scripted error injection across four tasks and five outcome types, condition management, a hidden researcher control interface, and per-participant event and questionnaire logging (Unity/C#, Node.js, networking). [GitHub](#)

Omni-Connect / DeviceSphere

Jun 2026 – Present

University of Birmingham · multi-device HCI research system, targeting a CHI submission

Cross-device interaction research in which a laptop, phone, and tablet operate as a single connected workspace: the laptop runs a native Unity coordination server while phone and tablet join through zero-install WebGL clients over the local network. Implemented a novel copy-paste interaction driven by hand gestures captured with Meta Project Aria glasses (close a fist on a function tile to grab it, open it toward a device to paste), a real-time WebSocket-to-UDP bridge, and the complete infrastructure for two controlled user studies with per-participant data logging. [GitHub](#)

Cicatrixa

Jul 2026 – Present

Founder project · autonomous deploy-and-heal platform

AI system that takes any GitHub repository, determines how to build it, wires a subdomain, and verifies the deployment end-to-end. It then stays on call: every push redeploys, and every crash is diagnosed and repaired automatically before the developer hears about it. Live at cicatrixa.com.

LLM Bias Mini-Evaluation

2026

Independent research

Reproducible evaluation of directional gender bias across BERT, RoBERTa, and GPT-2 using masked-language-modeling and open-generation prompts; found a consistent directional association in top predicted tokens across all test prompts. [GitHub](#)

EXPERIENCE

Student Researcher

Jun 2026 – Present

University of Birmingham · Internship, Hybrid

Conducting academic research in AI and human-computer interaction within a university lab: experimental design, data collection, and analysis, applying machine learning methods to live research problems.

Software Engineer

Jun 2026 – Present

Turin Polytechnic University in Tashkent · Internship, Remote

Developing a drone-based computer vision system for wind-turbine health analysis: training models to classify turbine conditions and detect operational modes from aerial imagery, owning the full pipeline from dataset preparation through model training, evaluation, and production-ready export.

Ambassador of IT Exports, Uzbekistan-UK

Dec 2024 – Present

Ministry of Digital Technologies of the Republic of Uzbekistan

Official ambassador facilitating IT export relations between Uzbekistan and the United Kingdom, promoting cross-border technology collaboration and representing Uzbekistan's growing tech ecosystem.

Ambassador, Birmingham International Academy

University of Birmingham · Part-time

Oct 2025 – Jun 2026

Represented BIA students as an official ambassador; delivered welcome talks, spoke at intake events, and organised community activities supporting international students' transition into university life.

Information Technology Intern

IT Park Uzbekistan

Aug 2025

Managed IT operations and built institutional partnerships at one of Uzbekistan's leading technology hubs, supporting company onboarding into the Uzbek market.

English & Mathematics Tutor

SAT Tashkent College Prep · Part-time

Sep 2024 – Jan 2025

Tutored SAT students and mentored them through admissions to top universities abroad; co-designed test questions and practice materials for the English department.

EDUCATION

BSc Artificial Intelligence & Computer Science

University of Birmingham

Sep 2025 – Jun 2028

First-Class performance, Year 1. Computation, algorithms, data structures, mathematics, object-oriented programming, software engineering, and AI fundamentals. Societies: Soccer, Arabic.

Foundation Year, AI & Computer Science

University of Birmingham

Jan 2025 – Jul 2025

Grade: 80%+. Completed with certification: programming, mathematics, and AI fundamentals.

BSc AI & Robotics (transferred)

New Uzbekistan University

Aug 2024 – Nov 2024

Began degree study in AI & Robotics before transferring to the University of Birmingham.

High School Diploma, Computer Science

Presidential School in Bukhara

Oct 2021 – Jun 2024

Uzbekistan's most selective government school network, with admission through Cambridge assessments (roughly 24 places per ~600 applicants; ranked among the top 3 admitted). Student Council member; rigorous curriculum taught by international faculty.

HONOURS, AWARDS & TEST SCORES

Informatics Olympiad (Competitive Programming): 1st place at the school qualifying stage in two consecutive years (Grades 9-10); went on to compete at the Bukhara Regional Informatics Olympiad and in major national competitive-programming competitions that serve as indirect IOI qualifying rounds.

Bukhara Regional English Olympiad: 3rd place (2023, Grade 11), earning a certificate, monetary award, and early university admission offers; qualified for the Republican (national) stage representing Bukhara region. 4th place (2023, Grade 9) after ranking 1st in the school qualifying stage.

SAT 1500 (Dec 2023): top-tier global performance in mathematics and evidence-based reading & writing. · IELTS 8.0 (Apr 2024): near-native English proficiency across all four skills.

SKILLS & LANGUAGES

AI / ML	Machine Learning, Computer Vision, Deep Learning, Model Training, NLP, LLM Evaluation, R&D
SOFTWARE	Python, Java, C# (Unity), Software Engineering, Full-Stack & API Development, Docker, Git, Distributed Training (PyTorch DDP)
RESEARCH	Experimental Design, Wizard-of-Oz Studies, Data Collection & Analysis, HCI Methods, VR / XR Systems
PROFESSIONAL	Public Speaking, Project Management, International Relations, Business Development
LANGUAGES	Uzbek (native), English (full professional, IELTS 8.0), Tajik (professional), Russian (limited), Arabic (elementary)