

DEMETRE BZEKALAVA

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EDUCATION

Carnegie Mellon University **Doha, Qatar**
B.S. in Computer Science — 100% Merit & Need-Based Scholarship Recipient 2026 – 2030

UWC Robert Bosch College **Freiburg, Germany**
Exchange Student, "Building a Sustainable Future" — Full Scholarship 2025

- 1 of 10 national finalists from 2,000+ applicants; led 3 international webinars on sustainability reaching 250+ youth and coordinated 4 rural cleanup projects engaging 120+ volunteers

Komarovi Physics and Mathematics School N199 **Tbilisi, Georgia**
High School Diploma, GPA: 3.86/4.00 Sep 2020 – May 2026

- Class President (2024–25); candidate for the national Silver Medal for academic achievement (top 4% nationally)

PROFESSIONAL EXPERIENCE

ACT Global **Tbilisi, Georgia**
Data Analyst (Contract) — promoted from Junior Data Analyst (Internship) Sep 2025 – Jun 2026

- Conducted financial data analysis comparing revenue, cost and growth trends; processed datasets of 600+ entries in Excel for aggregation and summary analysis
- Built interactive Power BI dashboards for management reporting; audited technical CVs for 100% alignment with RFP and procurement requirements

Harbour Space University — IOAI Tenerife Summer Tech Camp **Santa Cruz de Tenerife, Spain**
ML Research & IOAI Training — 100% Merit-Based Scholarship Recipient Jul 2026

- Placed top 3 in the camp-wide machine learning competition; coached beginner participants through machine learning fundamentals alongside the core research programme

TutorBrothers **Remote**
Co-Founder & Chief Technology Officer Jan 2026 – Present

- Co-built Georgia's leading STEM mentorship platform, connecting students to a vetted network of 20+ of the country's strongest STEM mentors
- Lead product and web development; commercial model built on 6+ years of combined tutoring experience with co-founder

Schoolhouse.world **Remote, United States**
SAT Mathematics Tutor Feb 2026 – Mar 2026

- Delivered free, peer-certified SAT mathematics tutoring to international students on a global non-profit learning platform

Self-Employed **Remote**
Mathematics Teacher (SAT & Higher-Level Calculus) Aug 2024 – Mar 2026

- Mentored 20+ students to an average total SAT improvement of 120–140 points, including two perfect 800 Mathematics scores
- Taught Calculus and high school core curriculum; designed a 12-week 'Math Foundations' bridge programme — all students finished with top final grades

GM Pharma **Tbilisi, Georgia**
Junior Cybersecurity Engineer Intern Feb 2025 – Apr 2025

- Provided IT security support for 450+ employees and assisted in monitoring intrusion detection and prevention system (IDS/IPS) alerts
- Reviewed 10+ past incidents to identify recurring attack patterns and vulnerabilities; documented findings into reports for senior security staff

IT Center MZIURI **Tbilisi, Georgia**
Competitive Programmer Sep 2021 – Jun 2025

- 2x winner of the National Informatics Olympiad out of 600+ participants; specialised in C++ and memory management, writing highly optimised, time-efficient code
- Expert-level dynamic programming, greedy algorithms and network flow; advanced segment/Fenwick trees, DSU and graph theory (shortest paths, MST, flow)

PROJECTS & LEADERSHIP

Attend AI — Smart Attendance Tracking Startup **Co-Founder & Lead Developer | 2025 – Present**

- Developed an ML-powered attendance system using face recognition; prepared photo training data for accurate person identification
- Deploying across 2 universities serving 5,000+ students, with system performance benchmarked at 95% accuracy

ReadEaseGeo — Dyslexia Support Web App **Co-Founder & Lead Developer | 2025 – Present**

- Built a real-time ML eye-tracking system for gaze detection and reading-pattern analysis, plus 7 games with difficulty adapted to user performance
- Trained 5+ dyslexia therapists to integrate the app into therapy workflows; analysed engagement metrics from 40+ active users

Research Club & Collaboration Club, Komarovi Campus School **Founder & President | 2024 – 2026**

- Interviewed 500+ students and published 17 research projects; grew media reach to 40,000 impressions and secured national press coverage (Etaloni, 80k+ followers)
- Partnered with national NGOs including Helping Hand to open volunteer opportunities to 2,000+ students; managed a team of 10 across a cross-school leadership network

SOS Children's Village & National Youth Palace **Mathematics & CS Mentor | 2024 – 2025**

- Led 5 mentors delivering weekly maths and programming lessons to 120+ orphans and youth with disabilities; coached 4 for the National Programming Olympiad

AWARDS & HONOURS

- National Team Member, European Junior Olympiad in Informatics (EJOI) 2022 — top 5 nationally of 600+; top 60 of 200+ from 20+ countries
- 2x Winner (top 10), Georgian National and Winter National Olympiads in Informatics 2022; 15th nationally at GEOI 2023 (600+ participants)
- 8th Place, NASA Space Apps Challenge Georgia 2025 (50+ teams); 5th Place, USAID & PH International Civic Education Hackathon 2024 (100+ teams)

TECHNICAL SKILLS, TESTS & LANGUAGES

- **Programming:** C++ (memory management, performance optimisation), Python, web development
- **Algorithms & Data Structures:** dynamic programming, greedy algorithms, network flow, graph theory (shortest paths, MST), segment & Fenwick trees, DSU, number theory, combinatorics, string processing (KMP, suffix automata)
- **Machine Learning:** face recognition and computer-vision pipelines, eye-tracking and gaze detection, training-data preparation, model performance evaluation
- **Data, Analytics & Security:** Excel aggregation and summary analysis, Power BI dashboarding, financial trend analysis, R&D support; IDS/IPS alert monitoring and incident review
- **Tests & Languages:** SAT 1470 superscore (800 Mathematics); IELTS 7.0 | Georgian (native), English (C1)