

Abdullah Rehman

International Computer Science Educator

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Professional Profile

International Computer Science educator with more than a decade of experience across AP, Cambridge, IB-related, and international-school settings. Teaching and professional work span Computer Science, cybersecurity, programming, digital citizenship, curriculum development, educational leadership, and classroom-based practitioner inquiry. Current interests include cybersecurity education, digital literacy, formative assessment, artificial intelligence in education, and technology-enhanced learning.

Professional Appointments

Aug 2022–Present

Computer Science Teacher

Robert College · Istanbul, Türkiye

- Teach and develop secondary Computer Science curricula, including AP Computer Science A, AP Cybersecurity, programming, digital citizenship, and related courses.
- Contribute to curriculum development, professional learning, strategic teaching-and-learning initiatives, and student enrichment.

Feb 2021–Aug 2022

Head of Computer Science and Robotics Department; previously Coding and Robotics Teacher

Aljazari International School · Istanbul, Türkiye

- Joined as a Coding and Robotics Teacher and was appointed department head in May 2021.
- Led curriculum development, departmental coordination, faculty support, learning-management-system implementation, educational events, and programmes in Python, Arduino, Raspberry Pi, robotics, and model aviation.

Oct 2019–Nov 2020

IB Programme Manager and IGCSE/A Level ICT Teacher

Roots IVY Educational Complex · Faisalabad, Pakistan

- Managed international-programme operations while teaching ICT and supporting curriculum planning, teacher development, scheduling, parent communication, and technology integration.
- Contributed to the transition to online and blended learning through Microsoft Teams, Google Classroom, and professional learning for educators.

2012–2020

Computer Science Teacher; previously IT Lab Assistant

The Rehman College · Faisalabad, Pakistan

- Progressed from IT laboratory support to Computer Science teaching across Intermediate in Computer Science, Diploma in Information Technology, and short-course programmes.
- Teaching included programming, networking, operating systems, databases, systems analysis, web development, and practical computing.
- Continued teaching evening classes from October 2019 to November 2020 alongside the full-time appointment at Roots IVY.

Education

2024–2025	International Postgraduate Certificate in Education (iPGCE) University of East London, with TES Institute Postgraduate study in subject pedagogy, reflective practice, adaptive teaching, assessment, and classroom-based practitioner inquiry.
2020–2022	Master’s Degree in Information Technologies Altınbaş University · Istanbul, Türkiye Thesis-based graduate study in cybersecurity, computer and network security, machine learning, and data mining; thesis research examined blockchain-based approaches to protecting medical data.
2015–2019	Bachelor of Science in Computer Science (Honors) University of Central Punjab · Lahore, Pakistan Undergraduate study across programming, algorithms, software engineering, databases, systems, networking, artificial intelligence, and web and mobile application development.

Leadership & Institutional Contributions

- Chair, NYSAIS Self-Study Committee for Teaching and Learning, Computer Science contribution (Aug 2024–Jan 2026).
- Member, Strategic Plan Committee with a Teaching and Learning focus (2023–Present).
- Contributor to school initiatives involving artificial intelligence, academic honesty, digital practice, and faculty professional learning.
- Faculty adviser for the RC Model Airplane Club; previously advised Rotaract student activities.

Research & Publications

Blockchain-Enhanced Privacy and Security in Medicare Data Sharing: Identifying Gaps and Solutions in Current Practices Published research · 2024 Research on blockchain-based approaches to privacy, security, and healthcare data sharing. DOI: 10.1007/978-3-031-53717-2_40
Digital Literacy and Its Role in National Development Independent research study · 2025–2026 Research examining digital literacy as a factor in educational, economic, and national development.
Enhancing Student Engagement and Inclusion Through Adaptive Teaching and Formative Assessment iPGCE action research · 2025 Classroom-based inquiry in a Prep-year Computer Science programming classroom.
An Action Research Study on Rubric-Based Peer Feedback in a Prep Year Computer Science Classroom iPGCE action research · 2025 Inquiry into structured peer feedback, reflection, and collaborative learning.

Selected Presentations & Professional Learning

2025	Reflective Practice: A Tool for Teacher Growth Teachers Teaching Teachers (TTT), Robert College · Istanbul, Türkiye
2025	Teaching AP Computer Science A: Updates and Best Practices Autumn Teachers' Conference (ATC), Robert College · Istanbul, Türkiye
2024	Empowering Educators with Artificial Intelligence Autumn Teachers' Conference (ATC) · Istanbul, Türkiye
2024	Motivation-Regulating Strategies and the 16 Habits of Mind for Successful Learners Teachers Teaching Teachers (TTT), Robert College · Istanbul, Türkiye
2023	AP Computer Science A: Best Exam Practices Autumn Teachers' Conference (ATC) · Istanbul, Türkiye
2023	AP CSA Teaching Resources and Academic Year Planning AP Community Event · Istanbul, Türkiye
2023	Metacognition Teachers Teaching Teachers (TTT), Robert College · Istanbul, Türkiye
2023	Blockchain-Enhanced Privacy and Security in Medicare Data Sharing: Identifying Gaps and Solutions in Current Practices ICCIDA 2023, Universidad de Castilla-La Mancha · Spain

Open Educational Resources

AP Cybersecurity Vocabulary Banks, Units 1–5

Open educational resources · Zenodo · 2026

Unit-based vocabulary resources developed for AP Cybersecurity and published as individual teaching materials. Persistent identifiers and current records are available through ORCID.

[View ORCID record](#)

Selected Credentials & Professional Learning

- Foundations of Cybersecurity — Google, 2026.
- Heartsaver First Aid, CPR & AED — American Heart Association, 2025–2027.
- Child Protection for International Schools and Online Safety — Tes / EduCare, 2024.
- CodeHS Certified Educator — CodeHS, 2023.
- CS50 for Educators — Harvard University, 2022.
- Selected technical training in ethical hacking, networking, systems administration, and cloud computing, including CEH, CCNA, MCSE, and AWS Cloud Practitioner pathways.

Technical & Educational Expertise

Programming & Computing

Python, Java, JavaScript, C++, C#, SQL, HTML/CSS, Bash; web and mobile application development.

Cybersecurity, Networking & Systems

Cybersecurity fundamentals, computer and network security, network administration, systems administration, and ethical hacking concepts.

Educational Technology & Digital Learning

CodeHS, Canvas LMS, Google Workspace, Microsoft 365, GitHub, React Native, online and blended learning environments, and AI literacy integration.

Robotics & Applied Computing

Arduino, Raspberry Pi, LEGO and Robotis robotics platforms, 3D printing, laser cutting, maker environments, and project-based STEM learning.

Selected Community Engagement

Faisalabad Literary Festival

Event coordination · 2016–Present

Supports planning and delivery of an annual literary and cultural festival through administrative coordination, promotions, partnerships, logistics, and contributor management.

TCF Rahbar Programme

Youth mentor · 2019

Mentored secondary students through The Citizens Foundation's structured youth-development programme.

European Athletics Championships, Istanbul

International volunteer · 2022–2023

Supported environmental operations for an international athletics event in Istanbul.

Bosphorun 10K & Sports Festival

Community volunteer · 2022

Supported public sporting activities organised with Beşiktaş Belediyesi to promote health, participation, and community wellbeing.

Professional Links

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