

Niyat Habtom Seghid

Curriculum Vitae

Personal Details

Name: Niyat Habtom Seghid
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Academic Qualifications

- **Master of Science in Computer Science** San Francisco Bay University, California, USA (Aug 2023 - Dec 2024).
- **Bachelor of Science in Information Technology (Cybersecurity and Network Technologies)** Zayed University, Abu Dhabi, UAE (Aug 2019 - May 2023).

Employment History

- **Lecturer**, College of Computing and Intelligent Systems, University of Khorfakkan, Sharjah, UAE (Jan 2026 - Present). Teaches undergraduate courses in Cybersecurity, Information Technology Fundamentals, and Artificial Intelligence. Contributes to scholarly research and academic publications.
- **Research Engineer**, Advanced Cyber Forensics Research Lab, Zayed University, Abu Dhabi (Oct 2023 - Jan 2026). Conducted research on ML, AI, and Explainable AI in cybersecurity. Co-developed methodologies for digital forensics on social robots and AI-assisted crimes. Contributed to research publications and grant proposals.
- **Graduate Teaching and Lab Assistant**, College of Technological Innovation (CTI), Zayed University, Abu Dhabi (Aug 2023 - Jan 2026). Facilitated undergraduate and graduate IT courses in Cybersecurity, Digital Forensics, Operating Systems, Networking, and AI/ML. Designed labs and assisted with projects to strengthen students' practical competencies.
- **IT Support and Administrative Intern**, ZU Registration Office, Zayed University, Abu Dhabi (Jan 2023 - Jun 2023). Managed student information systems and provided IT technical support and troubleshooting for administrative operations.

- **Peer Assistance Leader (PAL)**, Zayed University, Abu Dhabi (Jan 2020 - May 2023). Provided academic tutoring and peer support to university students across IT and cybersecurity courses. Recognized with a formal ZU PAL credential (Jul 2023) for sustained contribution to student success.
- **Undergraduate Research Assistant**, CTI, Zayed University, Abu Dhabi (May 2021 - Mar 2023). Worked on blockchain applications, threat modeling, and vulnerability analysis. Supported academic publications and literature reviews in cybersecurity.

Teaching Experience

- **Lecturer in Computer Science**, College of Computing and Intelligent Systems, University of Khorfakkan, Sharjah, UAE (Jan 2026 - Present)
- **Graduate Teaching and Lab Assistant**, College of Technological Innovation, Zayed University, Abu Dhabi, UAE (Aug 2023 - Jan 2026): Facilitated undergraduate and graduate courses in Cybersecurity, Digital Forensics, Operating Systems, Networking, and AI/ML.

Conferences & Workshops

- EAI ICDF2C 2025 - International Conference on Digital Forensics & Cyber Crime (2025). Successfully presented paper: Digital Forensic Investigation of Social Robots: Zenbo, Zenbo Jr., and Misty II as Case Studies.
- ISDFS 2025 - International Symposium on Digital Forensics and Security (2025). Co-authored two papers on AI-assisted crime investigation and security analysis of secondhand storage devices.
- NTMS 2025 - International Conference on New Technologies, Mobility and Security (2025). Co-authored two papers on forensic examination of iOS platform artifacts and digital evidence extraction from PS4 gaming consoles.
- Generative AI Bootcamp - Core42, Abu Dhabi (Oct 2023). Attended an intensive workshop on generative AI technologies, language model development, and advancements in Arabic-English JAIS model.
- CyberQ (Nov 2025) - Attended a workshop on State of the Art of Quantum Computers in Cybersecurity: A session on emerging quantum computing technologies and their implications for cybersecurity.
- AI and Cybersecurity in the Next Decade - CyberQ (Nov 2025). Attended a session that explored future trends and challenges at the intersection of AI and cybersecurity.
- Attended a training workshop on Research Communication: Fundamentals of Publishing Ethics (March 2026)

Research Interests

- Artificial Intelligence in Cybersecurity

- Digital Forensics Investigations
- Explainable and Trustworthy AI (XAI)
- Penetration Testing and Vulnerability Analysis
- Forensic Analysis of IoT, Smart Devices, and Gaming Platforms
- AI-Assisted Crime and Emerging Threat Investigation
- Security and Privacy in Smart Environments

Research Publications (Books, Journals & Conferences papers)

Book Chapter

- Contributed to *Impacts of AI in Cybersecurity and Digital Forensics*, a comprehensive edited volume covering ML/DL techniques, adversarial attacks, blockchain and quantum security, social robotics forensics, and authorship analysis.

Journals

- **Seghid, N.**, Iqbal, F., Al-Room, K., & MacDermott, Á. (2026). Emerging threats in AI: A detailed review of misuses and risks across modern AI technologies. *Frontiers in Communications and Networks*, 6, 1727425. doi: 10.3389/frcmn.2025.1727425

Conference Papers

- **Seghid, N.H.**, Iqbal, F., Kamoun, F., & Al Breiki, H. (2025). Digital Forensic Investigation of Social Robots: Zenbo, Zenbo Jr., and Misty II as Case Studies. EAI ICDF2C 2025.
- S. Daniel, **N. Seghid**, F. Iqbal, A. Marrington, A. M. Dermott and K. Al-Room, "Forensic Investigation of Smart Connected Devices: A Comprehensive Experimental Study on Mobile Phones, Social Robots, Gaming Consoles, Drones, and VR Headsets," 2025 International Conference on Intelligent Computing and Next Generation Networks (ICNGN), Singapore, Singapore, 2025, pp. 1-9, doi: 10.1109/ICNGN67480.2025.11413690.
- AlBreiki, M., Alazemi, F., **Seghid, N.**, Wani, A., & Iqbal, F. (2025). Forensic Examination of iOS Platform Artifacts: A Comparative Multi-Tool Study Using Publicly Available Data. NTMS 2025, pp. 17-25.
- Alawadhi, H., AlGhafri, B., **Habtom, N.**, & Iqbal, F. (2025). Unlocking Digital Evidence Utilizing Save Wizard for PS4 in Forensic Analysis. NTMS 2025, pp. 67-72.
- Alnaqbi, A., Alblooshi, M., Nasser, H.A., **Habtom, N.**, & Iqbal, F. (2025). Forensic Investigations in the Age of AI: Identifying and Analyzing Artifacts from AI-Assisted Crimes. ISDFS 2025, pp. 1-6.
- Alnaqbi, M.M., Alblooshi, S.T., Alshamsi, E.A., **Seghid, N.**, & Iqbal, F. (2025). An Empirical Analysis of Security and Privacy Issues Associated with Selling and Purchasing of Secondhand Storage Devices. ISDFS 2025, pp. 1-7.

Peer Review Activities

- Served as Subreviewer for a paper at the Digital Forensics Research Workshop (DFRWS) USA, 2026
- Served as External Reviewer for a paper at the Digital Forensics Research Workshop (DFRWS) EU, 2026

Certifications and Recognitions

- Generative AI Bootcamp Certification - Core42, Abu Dhabi (Oct 2023). Completed intensive training on generative AI, large language models, and the Arabic-English JAIS Language Model.
- SAP Dual Study Program (Mar 2022). SAP-certified on programme covering SAP implementation and business analytics fundamentals.
- Cisco Certified Network Associate (CCNA), Cisco (May 2022). Certified professional in network fundamentals, routing, switching, wireless essentials, and network security.
- ILM Level 2: Extended Award for Young Leaders, Institute of Leadership and Management, UK (Mar 2021). Awarded as part of a professional leadership development programme.
- Global Connect Program, Soliya (Dec 2020). Participated in international cross-cultural dialogue and collaboration programme.

University & Community Services

- Advise students in selecting courses aligned with their academic goals, career aspirations, and degree requirements, providing tailored guidance based on performance and interests, and assist with issues such as study planning, academic progress, and navigating university policies.
- Attended seminars, talks, and workshops on emerging trends in cybersecurity, AI, and digital forensics to support community learning and professional development.
- Organize and lead student clubs and initiatives to foster community engagement, skill development, and collaborative learning.
- Mentor students for extracurricular competitions and events, supporting preparation and participation.
- Represent college at external events and competitions, supporting student participation and promoting institutional engagement.
- Academic Research Collaboration - Active member of forensic research groups, collaborating with faculty and senior researchers on funded cybersecurity and digital forensics projects.
- International Cross-Cultural Engagement - Participated in the Soliya Global Connect Program (Dec 2020), engaging in structured international dialogue to promote cross-cultural awareness and communication skills.
- Covid-19 Community Service (Sep 2020) - Contributed to university-led community service and student support initiatives during the pandemic, including peer tutoring and remote academic assistance for children of frontline medical workers.