Shakhzod Yuldoshkhujaev

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Education

- **Sungkyunkwan University** — Suwon, South Korea
  M.S. in Computer Science and Engineering (Expected Aug 2026) — *Sep 2024 – Aug 2026*
  - Advisor: Prof. Hyungjoon Koo, SecAI Lab
  - Research Area: Computer Security, AI for Security, Digital Forensics
- **Sungkyunkwan University** — Suwon, South Korea
  B.S. in Computer Science and Engineering; GPA: 3.8/4.5 — *Sep 2020 – Aug 2024*

Experience

- **SecAI Lab, Sungkyunkwan University** — Suwon, South Korea
  Researcher — *Feb 2024 – Present*
  - Collected and analyzed a large dataset of APT threat reports using an LLM-based RAG pipeline.
  - Analyzed Telegram Web artifacts and developed a forensic tool using Volatility 3.
  - Investigated recent AI-based techniques for binary analysis and related security applications.
- **InfoLab, Sungkyunkwan University** — Suwon, South Korea
  Research Assistant — *Apr 2023 – Dec 2023*
  - Performed LLVM-based compiler analysis for metadata extraction from input programs.
  - Conducted network traffic analysis of C2 malware using Cuckoo sandbox and Wireshark.
  - Developed Snort 3 detection rules and built an ML-based classification model for C2 malware.

Publications

- **A Decade-long Landscape of Advanced Persistent Threats: Longitudinal Analysis and Global Trends**
  ACM Conference on Computer and Communications Security (CCS), Oct 2025. *First author*
  Distinguished Paper Award
- **Scenario-Driven Memory Artifact Recovery for Telegram Web Forensics**
  Under review at ESORICS 2026. *Co-author*
- **Online Messenger Forensics Across Platforms: A Systematic Comparative Study**
  Journal of the Korea Institute of Information Security & Cryptology (JKIISC), Dec 2025. *Co-author*
- **Evolving Attack Tactics against Messaging Applications**
  Information Security and Cryptography Winter (CISC-W), Nov 2025. *First author*
- **Investigating the Acquisition and Analysis of Digital Artifacts for Messaging Applications**
  Information Security and Cryptography Summer (CISC-S), Jun 2025. *Co-author*
- **Advanced Persistent Threats: Addressed and Open Research Questions**
  Information Security and Cryptography Winter (CISC-W), Nov 2024. *First author*

Achievements

- **Distinguished Paper Award, ACM CCS (Oct 2025)**
  Awarded to the top 30 papers out of 316 accepted (∼9.5%).
- **CTF Competition, Sungkyunkwan University (Aug 2023)**
  Ranked among the top 10 teams in a university CTF competition.
- **STEM Scholarship Recipient, Sungkyunkwan University (Sep 2024)**
  Awarded for academic excellence in STEM studies.
- **Global Network Scholarship, Sungkyunkwan University (Mar 2022)**
  Awarded for academic performance and participation in international student mentoring.

Skills

- **Programming:** C/C++, Java, Python, Kotlin, Dart, JavaScript
- **AI/ML:** LangChain, RAG, FAISS, OpenAI API, scikit-learn, pandas
- **Security:** Wireshark, YARA, Snort 3, Cuckoo Sandbox, VirusTotal API, LLVM, APT analysis, digital forensics
- **Technologies:** Firebase, Flutter, Node.js, React, PostgreSQL
- **Languages:** Uzbek (Native), Russian (Native), English (IELTS 7.5), Korean (TOPIK 6)