

Sofia Filippatou

BSc Student

EDUCATION

- 2022-2026 **Information & Communications Technology**
BSc (4 years), University of Piraeus | Department of Digital Systems
 - Primary Major: Telecommunications & Networks
 - Second Major: Information & Communication Systems Security
 - Thesis: Agentic AI Security & Privacy
 - Expected Graduation: September 2026
- 2019-2022 **High School**
Graduate, Greece
 - Published Mock Exam Developer (May 2022): Authored a Mathematics Panhellenic mock exam published on Askisopolis.gr.

LANGUAGES

- Greek

English
- C2

C2
- mother tongue

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PROJECTS

- 2026 **Home Labbing**
System Administration Linux, Docker, Networking, Proxmox
Designed and maintained a personal server environment for testing and self-hosting services
- 2026 **LitResearch**
Software Development Python, L^AT_EX
Developed a text processing alignment tool leveraging modern Python tooling (uv)
- 2026 **Smart City**
 - Full Stack HTML, CSS, JavaScript, PHP (University Project)
Developed a full-stack web dashboard for real-time traffic monitoring
 - IoT Arduino, Flutter, ThingSpeak (University Project)
Built an IoT smart bin with an Arduino sensor and a Flutter app displaying live trash fill percentage
- 2025 **Time Series Analysis** (University Project)
Data Science Python, Pandas, Jupyter
Analyzed sequential dataset to identify trends, forecast patterns, and extract insights
- 2025 **Bash Automation Scripts** (University Project)
Automation Bash, Shell Scripting
Created custom shell scripts to automate routine system tasks and streamline workflows
- 2025 **Socket-Programming** (University Project)
Network Programming C/C++, TCP/UDP
Implemented robust client-server architectures to handle custom network communication

EXTRACURRICULARS

- 2024 **Volunteer**, Ethical Hacking & Security Workshops
 - Organised & Presented hands-on training and practical skill-building in cybersecurity
- 2025 **Participant**, ERATOSTHENES Final Workshop
 - Explored advanced research and industry insights on IoT security
- 2025 **Participant**, App Design with MATLAB
 - Built interactive software applications utilizing the MATLAB environment
- 2024 **Participant**, Hack'n'Learn 2024
 - Tackled practical cybersecurity challenges in a fast-paced Capture The Flag learning event
- 2024 **Participant**, Hellenic University Hack (HUH)
 - Solved complex security puzzles in a competitive, national university-level CTF
- 2024 **Participant**, NTUA_H4CK 3.0
 - Applied ethical hacking and vulnerability exploitation skills in a rigorous university CTF

SKILLS

- Development

Reverse Engineering

Tools & Frameworks

Core Concepts

Specializations

Soft Skills
- C, Python, Bash, Docker, Git

Ghidra

Burp Suite, Wireshark, Nmap, Arduino

Cryptography, Linux, Subnetting

OSINT, Prompt Engineering, Agent-Based Workflows

Problem Solving, Analytical Thinking, Teamwork, Effective Communication (fluent with both humans and AI)



About me

I am a 4th year BSc student at the University of Piraeus, in the Department of Digital Systems

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sofilip@tuta.io
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@sofilip
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@sofilip
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Personal Portfolio
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References
available upon request

Personal

Sofia Filippatou
Nationality: Greek
Birth Year: 2004

Currently Exploring

Agentic System Security • AI Privacy & Governance
• Privacy-Enhancing Technologies (PETs) • Secure Agent Orchestration
• AI Red Teaming • Data Privacy

Dotfiles

~/os/ Linux (I use it btw)
~/ascii-literature/ Phrack
~/analog-storage/ Books
~/pixel-consumption/ TV Series
~/expensive-hobby/ Photography
~/grass-touching/ Long Walks