Vincenzo Imperati

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EDUCATION

PhD in Computer Science - Sapienza University　　　　　　Nov 2023 - Expected Oct 2026
- Research focuses on user behavior analysis in distributed systems, including blockchains and social networks.
- Published **USENIX Security** research on monetization strategies in **121k** conspiracy Telegram channels.
- Currently serving as visiting PhD student at ETH Zurich, Switzerland (Sep 2025 - Oct 2026).

MSc in Computer Science - Sapienza University - GPA 3.88/4.0　　　　**Sep 2021 - Oct 2023**

BSc in Computer Science - Sapienza University - GPA 3.75/4.0　　　　**Sep 2018 - Jul 2021**

EXPERIENCE

OPEN SOURCE DEVELOPER　　　　　　　　　　　　　　　　**Aug 2025 - Present**
OpenSats　　　　　　　　　　　　　　　　　　　　　　　　**Remote**
- Received OpenSats grant funding to develop Bigbrotr, a full-archive and monitoring system for Nostr.
- Built fault-tolerant solution parsing **1k** active Nostr relays and archiving **100k** daily events from **18k** DAU.
- Developed the nostr-tools Python library, creating a comprehensive SDK for Nostr protocol interactions.

SOFTWARE ENGINEER　　　　　　　　　　　　　　　　　**Nov 2024 - Mar 2025**
Independent　　　　　　　　　　　　　　　　　　　　　　**Remote**
- Developed a mobile app for a **€7M** EU project featuring cultivar recognition for **600+** olive varieties.
- Digitized an Italian company's HR processes by developing a tailored cloud-based management system.

HACKATHON TEAM LEAD　　　　　　　　　　　　　　　　**Mar 2023 - Present**
- Led **6** teams to **10** prizes in international hackathons (∼**20** teams each), developing innovative solutions.
- Developed the first on-chain cross-protocol verification system linking Ethereum and Nostr identities.
- Created a confidential on-chain vote tallying protocol using zk proofs and homomorphic encryption.
- Designed an NFT lending protocol that doubled loan rates without liquidation risk through new game theory.

DATA ANALYST　　　　　　　　　　　　　　　　　　　　**Sep 2022 - Aug 2024**
Cantina Royale　　　　　　　　　　　　　　　　　　　　**Remote**
- Analyzed **20M+** transactions from ∼**200k** addresses to identify patterns of player behavior.
- Built a community platform serving **1k** MAU with real-time NFT data visualization capabilities.

TEACHING ASSISTANT　　　　　　　　　　　　　　　　　**Apr 2021 - Jul 2023**
Sapienza University　　　　　　　　　　　　　　　　　　**Rome, Italy**
- Awarded **3** teaching fellowships for **4** undergraduate computer science courses based on a high GPA.
- Delivered weekly tutoring sessions for **200+** students, creating educational materials and workshops.

AWARDS

Outstanding University Student 2025 - Sapienza University　　　　　　**Jun 2025**
Selected as **one of the top 400** master's graduates university-wide for outstanding academic achievement.

MSc Honours Program in Computer Science - Sapienza University　　　　**Oct 2023**
Selected as **top 3 of 150** students and completed the honors program in "Process Mining and Analytics".

BSc Honours Program in Computer Science - Sapienza University　　　　**Jul 2021**
Selected as **top 6 of 300** students and completed the honors program in "Smart Grids Algorithms".

SKILLS

Programming Languages: C, C++, JavaScript, Python, Solidity, TypeScript
Frameworks & Tools: Docker, Flask, MongoDB, Node.js, PostgreSQL, React
Specializations: Algorithms, Data Structures, Data Visualization, Distributed Systems, Network Analysis