Julian Barone

Laval, France | contact@jbarone.dev | +33 7 66 96 45 52 | jbarone.dev | linkedin.com/in/julianBarone
github.com/Julian516

Professional Profile

Computer Engineering student specializing in cybersecurity and secure systems. Passionate about artificial intelligence, algorithmic trading, and information security with hands-on experience in network infrastructure and deep learning projects.

Education

École Supérieure d'Informatique, Electronique, Automatique (ESIEA),   Sept 2024 – June 2027
Engineering Diploma (MSc equivalent) - Paris, France
- **Relevant Coursework:** Object-Oriented Programming (Java), Probability and Statistics, Cybersecurity, Artificial Intelligence, Data Structures, Software Engineering

Tamkang University, Exchange Semester in Computer Science - Taipei, Taiwan   Feb 2025 – June 2025
- **Relevant Coursework:** Deep Learning, Data Analysis, Network Security, Software Development and Project Management, Cloud Computing, Mandarin Chinese (Basic)

University of La Réunion, BSc in Computer Science - Réunion Island, France   2020 – 2024
- **Relevant Coursework:** Computer Architecture, Probability and Statistics, Algorithms (Python), Object-Oriented Programming (Java, C, OCaml), Data Structures

Professional Experience

Network Infrastructure Intern, Académie de La Réunion - Réunion Island, France   Summer 2023 (3 months)
- Assisted in the deployment and maintenance of network infrastructure for an academic IT department serving 100+ schools
- Configured network switches and participated in hardware deployment for office networks
- Contributed to server room updates and firewall configuration tasks
- Gained hands-on experience with network architecture and enterprise security tools

Research Projects

Deep Learning for Multi-Touch Detection Enhancement   2024 – Present
Research collaboration to improve multi-touch detection accuracy using deep learning techniques, based on the Multi-Touch Kit developed by MIT and Saarland University.
- Developing CNN-based models to enhance touch detection accuracy by 30% compared to traditional methods
- Implementing data preprocessing pipelines for sensor data analysis and pattern recognition
- Designing 3D-printed testing platform for structured data collection and model validation

Technical Skills

Programming Languages: Python (Advanced), Java, C/C++, Bash

AI/Data Science: NumPy, Pandas, Scikit-learn, PyTorch, TensorFlow

DevOps & Tools: Docker, Git, CI/CD (GitHub Actions), Linux Administration

Cybersecurity: Network Security, Cryptography, Kali Linux, Penetration Testing

Methodologies: Agile Development, Design Thinking, Secure Software Development Lifecycle

Languages

French: Native proficiency

English: Professional working proficiency (TOEIC: 873/990)

Mandarin Chinese: Elementary proficiency (HSK2 equivalent), currently studying