

# Jacob Dufossé — Junior Cybersecurity Engineer

## Network Automation & Security

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Saint-Paul, Réunion (France) | Open to relocation for the right opportunity or to work across time zones

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### Professional Summary

Junior cybersecurity engineer with **over a year of hands-on experience** in network security at Orange Réunion, after **12+ years working in international** creative technology roles (Montreal, Australia, France). **Trained by Orange CyberDefense** on Palo Alto NGFW, Panorama, and IPS/IDS. Strong background in **Python automation** for **threat detection** and operational workflows. Early adopter of **AI-assisted development** in cybersecurity. → Currently pursuing a Master's degree in Network & Security (2025–2027), with a fully remote schedule. Open to part-time or apprenticeship opportunities (2 weeks work / 2 weeks study) aligned with the program.

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### Education

- **Master's in Network & Security** (2025-2027) | *University of Reims, France*

- **Bachelor in Network & Telecommunications - Cybersecurity Track** (2023-2025)

*University of La Réunion, France* | **Graduated Top of Class** | ANSSI SecNumEdu certified

- **Bachelor of Arts in Design and Visual Experience** (2006-2009) | Université du Québec à Montréal, Canada

- **Associate Degree in Electrical Engineering & Industrial Computing** (2000-2002) | *IUT Paul Sabatier, France*

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### Experience

#### **Junior Network & Security Engineer | Orange Réunion | Sep 2024 – Present**

Trained by Orange CyberDefense

- **Production Infrastructure:** Administered Palo Alto firewalls (PAN-OS, Panorama), managed SSL/TLS certificates, Responded to Level 2 incidents and performed advanced network troubleshooting, Documented configurations and operational procedures
- **Security Operations:** Deployed and fine-tuned IPS/IDS modules (Palo Alto), performed DoS protection tuning, Built Python tools for dynamic threat intelligence (EDL, IOC ingestion, IP blocking/exclusion), Analyzed firewall and system logs for threat detection and response (Loki, Grafana, Centreon)
- **Network Operations:** Managed multi-vendor infrastructure (Cisco, Juniper, Fortinet, F5 load balancers), Handled network flows, ACLs and change management, Contributed to documentation and compliance best practices

#### **Cybersecurity Intern – Governance & Penetration Testing | SOOBK Solutions | Apr - Jul 2024**

- Conducted internal audit and led documentation for French “ExpertCyber” certification (aligned with ISO 27001, NIST, PASSI standards)
- Performed basic web application pentesting (OWASP Top 10, Burp Suite, Kali Linux)

#### **SEO and Web Performance consultant | Freelance | 2020 - 2023**

- Automated business workflows and improved site performance (SEO, Core Web Vitals)
- Analyzed data and advised SMBs using Google Analytics, SEMrush, and Google Search Console

#### **Immersive Media Consultant | Freelance (France & Canada) — 2009–2017**

- Creative coding (nodal environments, Python, Arduino), interactive prototyping, technical direction
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### Skills

#### **Professional Experience (Production Environment)**

**Firewalls:** Palo Alto Networks (NGFW, Panorama, ATP), Fortinet • **Network security:** routing, VLANs, BGP, certificate management • **Security Monitoring:** Palo Alto IPS/IDS, Centreon, threat intelligence APIs •

**Languages:** Python automation & API integration, Bash scripting • **AI:** AI-assisted software development • **NetOps:** GitLab, version control, audit trails • **Protocols:** TCP/IP, SSL/TLS

### **Academic & Lab Experience**

**SIEM:** Wazuh • **IPS/IDS:** CrowdSec, Snort • **Incident Management:** thehive and cortex (basic operational experience) • **SOAR:** N8N • **Virtualization:** VMware ESXi, vSphere • **Operating Systems:** Linux (advanced) • **Database:** SQL, PostgreSQL • **Firewall:** OPNsense, Stormshield (basic operational experience), Cisco Meraki (introductory)

### **Currently Learning (2025)**

**GitOps:** Advanced CI/CD pipelines, containerization • **Infrastructure as Code:** Terraform, Ansible automation • **Cloud Security:** AWS/GCP security frameworks and best practices

### **Familiar with (Theoretical Knowledge)**

EBIOS Risk Management • ISO 27001 Security Governance & PASSI Compliance (academic training)

### **Soft Skills**

Analytical thinking, collaboration, self-learning, clear documentation

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## **Projects**

### **Googlebots Automation & Dynamic Threat Exclusion (Production) | Orange Réunion – 2025**

- Eliminated manual firewall security rules maintenance (1-2 hours/week → 0)
- Automated IP whitelisting with Python, Palo Alto EDL, GitLab CI, and secure VM infrastructure
- Planned secure VM infrastructure
- AI-assisted development with version control and audit trails

### **Python Threat Intelligence Tool (Production) | Orange Réunion – 2025**

- Reduced threat analysis time from hours to <10 minutes per cycle
- Multi-algorithm threat detection, attacker scoring, automated IP blocklists generation, forensic reports
- Processes 1000+ IPs per analysis with comprehensive intelligence

### **Palo Alto NGFW Advanced IPS/IDS Deployment (Production) | Orange Réunion – 2024**

- 40% reduction in medium-severity international threats
- SSL/TLS decryption, CVE monitoring, DoS protection, Panorama centralized management

### **Open Source SOC Infrastructure (Academic) | IUT La Réunion - 2024**

- Enterprise-grade SOC capabilities at zero licensing cost
- Wazuh SIEM, Zabbix, CrowdSec, OPNsense, Grafana

**Detailed projects available at:** [jacobdufosse.dev](https://jacobdufosse.dev)

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## **Certifications**

- Rice University Python Programming (2024)
  - Google IT Security & Infrastructure (2023)
  - ANSSI Cybersecurity MOOC (SecNumAcademy) (2023)
  - SQL/PostgreSQL Database Management (2023)
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## **Additional Information**

**Languages:** French (Native), English Fluent (C2 Professional proficiency - 12+ years international **experience**)

**Mobility:** Proven international mobility (Australia, Canada) | Open to international, remote, or hybrid roles

**Interests:** Emerging technologies (quantum computing, AI, cybersecurity), global affairs, yoga instruction (10+ years), Brazilian Jiu-Jitsu