

# Toky Jafeta RASOLOMANITRA

Birth Date: 15-Jan-94 – Malagasy

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## Systems & Network Engineer – Information Systems Security Expert – Web Development Specialist

- 11 years' experience
- Fortinet certified Professional
- Design/Installation/Project Management

## Education

2024 - 2025	Hack The Box - Certified Penetration Testing Specialist
2024 - 2025	Hack The Box - Certified Active Directory Pentesting Expert
2025	Fortinet Training Institute: Fortinet certified Professional Network Security
2024	Fortinet Training Institute: Fortinet certified Advanced in cybersecurity
2024	Fortinet Training Institute: Fortinet certified Fundamentals in cybersecurity
2018	Master's in systems and network engineering
2016	Bachelor degree in system and network administration
2012	High School Graduated – Lycée FJKM Antanisoa Miarinarivo

## Professional Certifications

2025	Fortinet certified Professional Network Security
2025	Black Belt – Cisco XDR
2024	Fortinet certified Advanced in cybersecurity
2024	Fortinet certified Fundamentals in cybersecurity
2024	FortiEDR 5.0

## Skills

<b>Datacenter &amp; Virtualization</b>	DataCenter, implementation and troubleshooting  <u>Platforms</u> Cisco Unified Computing System Servers (Cisco UCS) QNAP Storage – Synology Storage Microsoft Windows Server 2003, 2008, 2012, 2012R2, 2016, 2019, 2022, 2025 Microsoft Windows Active Directory – DNS Server – DHCP Server - Other Services
<b>Project and Team Management</b>	Project Management: - <b>Team Management</b> : Successfully led a technical team during infrastructure deployment and migration projects, ensuring delivery within scope, time, and quality constraints.

## Routing & Switching

Cisco LAN/WAN design, implementation and troubleshooting.

Advanced LAN Switching:

- Routed Access LAN
- Virtual Switch System (VSS)
- Port Channel

Advanced routing:



- Static routing,
- Dynamic IGP routing: OSPF, EIGRP, BGP
- Policy Based Routing (PBR)

High Availability:

- HSRP, VRRP, GLBP
- vPC

Platforms

- Cisco IOS

	<ul style="list-style-type: none"> <li>▪ Cisco Integrated Services Routers (ISR): 1100 Series</li> <li>▪ Cisco Catalyst LAN switches: 2940, 2960, 3550, 3560, 3750, 4900, 4500, 6500</li> </ul>
<b>Video conferencing</b>	<p>Videoconferencing solution design, implementation and troubleshooting</p> <p><u>Platforms</u></p> <p>Polycom Trio 8800 avec EagleEye 5, G7500, others.</p>
<b>Wireless</b>	<p>Wireless Controller:</p> <p><u>Platforms</u></p> <ul style="list-style-type: none"> <li>▪ Ruckus Z1200</li> <li>▪ Ruckus One</li> <li>▪ Meraki</li> </ul> <p>Wireless Mesh Network:</p> <p>Wireless Mesh network solution design, implementation and troubleshooting</p> <p><u>Platforms</u></p> <ul style="list-style-type: none"> <li>▪ Ruckus R10, R550</li> <li>▪ Meraki MR42</li> </ul>
<b>Security</b>	<p><u>Security Solutions</u></p> <ul style="list-style-type: none"> <li>▪ Fortinet Fortigate Firewall Appliance: FG-140D, FG-401F, FG-1800F</li> <li>▪ Juniper</li> <li>▪ CheckPoint Firewall Appliance</li> <li>▪ Cisco Firepower Solution</li> <li>▪ Cisco IOS basé sur le firewalling (ACL)</li> <li>▪ Cisco Network Access Control (NAC)</li> <li>▪ Cisco Switches security (BPDU Guard, VTP, ...)</li> </ul> <p><u>Security Testing</u></p> <ul style="list-style-type: none"> <li>▪ Penetration Testing Process</li> <li>▪ Attacking Web Applications</li> <li>▪ Vulnerability Assessment</li> <li>▪ Command Injections</li> <li>▪ Active Directory Enumeration &amp; Attacks</li> <li>▪ File Inclusion</li> <li>▪ Network Traffic Analysis</li> <li>▪ Cross-Site Scripting (XSS)</li> <li>▪ File Upload Attacks</li> <li>▪ Server-side Attacks</li> <li>▪ Login Brute Forcing</li> <li>▪ Session Security</li> <li>▪ Web Service &amp; API Attacks</li> <li>▪ Pivoting, Tunneling, and Port Forwarding</li> <li>▪ Using Metasploit</li> </ul>
<b>Network Management</b>	<ul style="list-style-type: none"> <li>▪ Solarwinds Broadband Engineer</li> <li>▪ Nessus</li> <li>▪ OpenVAS</li> <li>▪ Nagios</li> <li>▪ Passeler PRTG network monitor</li> <li>▪ Wireshark</li> <li>▪ Nmap</li> <li>▪ </li> <li>▪ </li> </ul>

<b>System Administration</b>	<p>Linux: Redhat, Debian, Ubuntu, Kali, Parrot, Mint Windows: 2025 Server, 2022 Server, 2019 Server, 2008 Server, 2003 Server, 11, 10, Seven, XP, Vista.</p> <p>System Administration: Solution design, implementation and troubleshooting</p> <ul style="list-style-type: none"><li>▪ AD DS</li><li>▪ DNS</li><li>▪ DHCP</li><li>▪ WSUS</li><li>▪ RDP</li><li>▪ IIS</li><li>▪ Serveur de Certificat</li></ul>
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	<ul style="list-style-type: none"> <li>▪ Log Server</li> </ul>
<b>Database</b>	MS-SQL, MySQL, MS-ACCESS, POSTGRES, MONGODB
<b>Video Surveillance over IP</b>	<p>Solution design, implementation and troubleshooting</p> <p><u>Platforms:</u></p> <ul style="list-style-type: none"> <li>▪ Hik Vision</li> <li>▪ Reolink</li> </ul>

## Work Experiences

### NextHope -IT services and solution provider

**Jun 2024 – Present** | System, network and security engineer

- Designing and implementing system and network architectures
- Supervising and managing projects as a project manager,
- Writing and managing detailed technical
- Training users to effectively master the tools and
- Infrastructures deployed.Design, Implement, and Support phases for multiple customer projects.

### IT Security Consulting - Freelance

**November 2024 – Present** | Bug bounty Hunter

- Identifying and exploiting security flaws in web and mobile applications as part of responsible bug bounty programs.
- Performing in-depth vulnerability assessments and submitting detailed technical reports to help improve target security.
- Developing custom Python tools to automate reconnaissance, testing, and reporting in bug bounty workflows.
- Contributing to the security hardening of various platforms by providing actionable feedback based on real-world attack scenarios.

**December 2023 – Present** | Pentester

- Conducting intrusion tests to detect and correct vulnerabilities in clients' IT systems.
- In-depth analysis of existing security systems and recommendations for their strengthening.
- Developing Python scripts to automate security audits and generate detailed reports.
- Contributing to the continuous improvement of security processes through feedback and modern methodologies

### Bocasay - Offshore IT outsourcing

**Apr 2023 – Jun 2024** | Python developer

- Development of robust back-end applications in Python DjangoRest, adapted to various environments.
- Implementation of unit and functional tests to guarantee the quality and reliability of deliverables.
- Optimization of application performance through analysis and improvement of existing code.
- Collaboration with multidisciplinary teams for the deployment and maintenance of software solutions.

### Gendarmerie nationale - Public Security Armed Force

**Mar 2020 – Apr 2023** | Systems and network administrator/developer

- Administration and maintenance of network infrastructures to guarantee their availability, security and performance.
- Management and optimization of information systems, including the implementation of solutions adapted to operational needs.
- Development of customized applications to improve the management and monitoring of internal activities.
- Deployment and management of Windows/Linux servers, including the configuration and supervision of critical services.
- Proactive monitoring of systems and incident resolution to ensure optimal service continuity.
- Strengthening IT security by implementing backup, access and protection policies for sensitive data.
- Management of IT projects as a project manager, including the definition of needs, planning, monitoring and coordination of teams to
- ensure compliance with deadlines and objectives.
- Training and technical assistance to teams to strengthen their skills on the tools and systems used.
- Participation in the drafting of reports and technical documentation to ensure monitoring of activities and projects.

#### **CIDST Tsimbazaza - Information and Documentation Center**

**Dec 2019 – Jan 2020 | WEB developer**

- Development and maintenance of websites and internal applications to improve the management of the company's projects.
- Design and integration of SQL databases to ensure smooth and structured management of customer and project data.
- Collaboration with the design team to create a smooth and intuitive user interface, considering functional needs and technical requirements.
- Implementation of tests and debugging to ensure the performance and reliability of deployed applications.
- Participation in the development of innovative technical solutions to meet specific project management challenges.

#### **Madagascar internet - Website hosting service**

**Feb 2018 – Oct 2019 | IOS/ANDROID Developer**

- Design and development of mobile applications for iOS and Android, tailored to the specific needs of clients.
- Design and implementation of SQL databases for data storage and management on mobile platforms.
- Collaboration with UI/UX teams to create intuitive and optimized user interfaces for a smooth mobile experience.
- Participation in performance testing and debugging of applications to ensure optimal quality on different mobile platforms.

#### **Webhelp madagascar - Call center**

**Oct 2015 – Jan 2018 | BI Developer**

- Design and development of Business Intelligence solutions to improve analysis and decision-making within the company.
- Development of interactive reports and dashboards using BI tools (Power BI) to provide strategic insights on ongoing projects.
- Design and implementation of SQL databases for the efficient storage and analysis of company data.
- Automation of data collection and analysis using Python scripts to optimize workflow and reduce manual errors.
- Collaboration with business departments to define data needs and develop solutions tailored to operational requirements.
- Ensure data quality by performing validation tests and analyses to ensure the accuracy of reports and forecasts.
- Participation in the integration of BI systems with other internal tools to enable centralized management of company data.

**Sep 2014 – Oct 2015 | IT Technician**

- Technical support and maintenance of the company's IT systems to ensure their proper functioning and security.
- Automation of repetitive tasks and internal processes through scripts, thus optimizing workflows.
- Ensure the management and installation of IT equipment, as well as the configuration of workstations for employees.
- Monitoring and resolution of IT incidents, thus ensuring the continuity of the company's daily operations.
- Training and assistance to internal users on the specific IT tools and software used within the company.

## **Languages**

Malagasy	Fluent (writing, speaking)
French	Fluent (writing, speaking)
English	Fluent (writing)

## **Extra-Curricular activities**

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Research and Development  
Music  
Traveling  
Social Networking

## Recent Experiences Record

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### **Sept 2025 – Sept 2025 | BMOI – Firewall, Switching & Routing**

#### **Responsibilities: Project Manager / IT engineer in charge of:**

Preparation of all prerequisites and migration of all network connections and the existing security architecture to the new equipment, by proposing robust security solutions in accordance with best practices. These operations were essential to ensure a smooth and secure transition of the information system to the new infrastructure.

- Firewall and network flow assessment.
- Physical firewall migration.
- Optimized configuration.
- Infrastructure upgrade
- Configured firewall outputs towards the DMVPN routers of two operators on the FortiGate firewall (previously connected to the Core Switches).
- Optimized routing on routers and switches to efficiently support this new architecture.

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### **April 2025 – Aout 2025 | TALYS Group - Firewalling**

#### **Responsibilities: Project Manager / IT engineer in charge of:**

Preparation of all prerequisites and migration of all network connections and the existing security architecture to the new equipment, by proposing robust security solutions, in accordance with best practices. These operations are essential to ensure a smooth and secure transition of the information system to the new infrastructure.

- Leading the project as well as managing its smooth running
- Primary contact regarding the communication with the customer
- Writing all documents relevant to all phases of the project
- Participate to all meeting throughout the project phases
- Responsible of communication between all project's stakeholders
- Team lead of the network team which performing all technical task including designing and implementing network infrastructure
- Supervision of cabling and network equipment installation

#### Performing configuration of Infrastructure:

- ✓ Firewall and network flow assessment
  - ✓ Physical firewall migration
  - ✓ Migration of all services from the checkpoint-based network architecture to the Fortigate-based architecture
  - ✓ Management of equipment with FortiManager
  - ✓ Log analysis with FortiAnalyzer
  - ✓ Optimized configuration
  - ✓ Infrastructure upgrade and maintenance
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**October 2024 – Current | Orange Madagascar – CBIO Network and security Implementation****Responsibilities: Project Manager / IT engineer in charge of:**

- Leading the project as well as managing its smooth running
- Primary contact regarding the communication with the customer
- Writing all documents relevant to all phases of the project
- Participate to all meeting throughout the project phases
- Responsible of communication between all project's stakeholders
- Team lead of the network team which performing all technical task including designing and implementing network infrastructure
- Supervision of cabling and network equipment installation
- Network equipment configuration [Routers, Switches]
- Configured features:
  - ✓ Routing: VRF routing protocol and filters, Static routing, HSRP, Tracking for HA (High Availability);
  - ✓ Firewall: Fortigate and Juniper policy firewall rules, different parameters for monitoring;
  - ✓ L2 switching switch stacking, vlan, switchport access/trunk type, Spanning-Tree Protocol, link aggregation;
  - ✓ Other deployed features: High Availability of routers and firewalls and switches;
  - ✓ Test of all configured features

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**September 2024 | Africa50 – Network Provisioning****Responsibilities: Project Manager / IT engineer in charge of:**

- Leading the project as well as managing its smooth running
  - Primary contact regarding the communication with the customer
  - Writing all documents relevant to all phases of the project
  - Participate to all meeting throughout the project phases
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- Responsible of communication between all project's stakeholders
  - Team lead of the network team which performing all technical task including designing and implementing network infrastructure
  - Member of Networking Architect team in charge of the design
  - Performing LAB relevant to the target design
  - Acces point (Ruckus R310, RuckusOne)
  - Switching (VLAN, Policy Based Routing)
  - Firewall Configuration (Peplink, policy firewall rules, different parameters for monitoring)
  - Installing and performing basic configuration of Infrastructure:
    - ✓ Wireless Implementation
    - ✓ Basic configuration (VLAN, Firewalling)
    - ✓ Monitoring (PRTG)
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