

# ADE NAUFAL RIAN TO

## Network Engineer

Enterprise & Telecommunications · High Availability · Secure Connectivity

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## PROFESSIONAL SUMMARY

Network Engineer with a proven track record of growth from IT Support Technician to Enterprise Network Engineering role. Over 7+ years of progressive experience in IT infrastructure and telecommunications environments, combining hands-on technical expertise with strategic network planning and implementation.

My journey began providing frontline IT support and on-site engineering services, where I developed strong troubleshooting skills and deep understanding of end-user needs. This foundation proved invaluable as I transitioned into network engineering, specializing in enterprise routing, switching, WAN architectures, and IP-based network infrastructure design.

Currently focused on maintaining high-availability network environments for mission-critical business operations. Juniper-certified professional (JNCIS-SP, JNCIA-Junos) with expertise in BGP, OSPF, IS-IS, MPLS, and network security. Experienced in managing large-scale infrastructure projects, coordinating with cross-functional teams, and delivering technical solutions that balance performance, security, and operational efficiency.

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## CORE TECHNICAL SKILLS

### Routing & Switching

- Routing Protocols (BGP, OSPF, IS-IS)
- WAN, LAN, VPN, MPLS
- VLAN, STP, RSTP, MSTP, MC-LAG
- IPv4, IPv6, IP Addressing & Subnetting
- Network Protocols (TCP/IP, UDP, ARP, ICMP, DNS, DHCP)

### Network Infrastructure

- Juniper JunOS (MX, EX, SRX Series)
- High Availability & Load Balancing
- Network Design & Operations
- Network Troubleshooting & Root Cause Analysis
- Network Documentation & Topology Diagram

### Security & Monitoring

- Firewall & Network Security
- Network Monitoring (SNMP, Syslog, NTP)
- Incident Management & Response
- Security Policies & Access Control
- Performance Monitoring & Optimization

### Network Automation & Tools

- Python Scripting & Automation
- Paramiko (SSH Automation)
- Scapy (Packet Manipulation)
- PySNMP (SNMP Protocol)
- Network Configuration Management
- Automated Reporting (openpyxl)
- Bash Scripting & Linux Administration

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## PROFESSIONAL EXPERIENCE

### Network Engineer

**PT NEC Indonesia** – South Jakarta, Indonesia

**Feb 2023 – Dec 2025**

- Design, implement, and maintain LAN, WAN, and VPN network infrastructures
- Configure, manage, and troubleshoot routers, switches, and firewalls
- Monitor network performance to ensure high availability, reliability, and security
- Handle network incidents, root cause analysis, and change management activities
- Coordinate with internal teams and clients for on-site technical support
- Develop and maintain network documentation, configurations, and topology diagrams

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### IT Support Technician

**PT NEC Indonesia** – South Jakarta, Indonesia

**Apr 2018 – Feb 2023**

- Provided daily technical support for hardware, software, and network issues
- Installed, configured, and maintained PCs, laptops, printers, and peripherals
- Troubleshot Windows OS and office productivity applications
- Supported basic networking including LAN, Wi-Fi, and IP addressing
- Managed IT support tickets, escalation processes, and asset documentation

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### IT Consultant (Engineering on Site)

**PT Kimia Farma Apotek** – Bekasi, Indonesia

**Apr 2018 – Sep 2021**

- Delivered on-site IT support for retail pharmacy branches
- Installed and maintained POS systems and branch network infrastructure
- Troubleshot internal applications and operational systems
- Coordinated incident resolution with head office IT teams
- Provided user training and ensured operational system stability

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### Administration Project

**PT Tirta Alam Segar (Wings Food)** – Cibitung, Indonesia

**Jan 2016 – Aug 2017**

- Manage project administrative documentation and reports
- Support coordination between project teams and related stakeholders
- Monitor project progress and prepare periodic status reports
- Handle document control, filing, and correspondence
- Provide administrative support for on-site project operations

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## PROJECTS

- **Network Monitoring System**

Developed a network monitoring system to track and analyze network device status, performance metrics, and connectivity health

- **IoT-Based Smart Door Lock System**  
Designed and implemented an Arduino-based smart door lock system focusing on secure access control and system reliability
- **Sales Information System (Web-Based)**  
Developed a web-based sales information system used as practical learning material for Junior Web Developer professional certification
- **Undergraduate Thesis – Data Mining**  
*“Implementation of Data Mining Sales of Over-the-counter Drugs with Apriori Algorithm (Case Study: Kimia Farma Pharmacy Summarecon Bekasi).”*, completed with excellent results and graduated with honors (Cumlaude)

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## EDUCATION

### Bachelor’s Degree in Computer Science

Universitas Bhayangkara Jakarta Raya

2017 – 2021

GPA: **3.59 / 4.00**

Actively involved in student organization (UKM Pena Muda) and served as Event Committee Chair for “Penanniversary: Malam Puisi – Harmoni Simfoni”, which received media coverage (Liputan6).

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## CERTIFICATIONS

- Juniper Networks Certified Specialist – Service Provider Routing & Switching (JNCIS-SP)
- Juniper Networks Certified Associate – Junos (JNCIA – Junos)
- Junior Web Developer – BNSP
- TOEFL ITP - Englishvit

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## ADDITIONAL SKILLS

### IoT & Embedded Systems

- Arduino Development (C/C++)
- Hardware Integration (Keypad, LCD, RTC, Servo)
- Embedded Systems Design

### Web Development

- Web Development (CodeIgniter, PHP)
- Frontend (Bootstrap, HTML/CSS, JavaScript)
- Database Management (MySQL, PostgreSQL)

### Data Analysis & BI

- Data Mining & Business Intelligence
- Data Analysis (Pandas, Matplotlib)
- Version Control (Git, GitHub)

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## LANGUAGES

- Indonesian – Native
- English – Intermediate