

# NAUFAL SEIRA MUHAMMAD FARRAS

South Jakarta, Jakarta | [naufal.farras@binus.ac.id](mailto:naufal.farras@binus.ac.id) | [+6281915234845](tel:+6281915234845) | [LinkedIn](#) | [GitHub](#) | [Portofolio](#)

## SUMMARY

I am a proactive third-year computer science undergraduate student with a strong passion for IT Infrastructure and DevOps. I have hands-on experience in designing, deploying, and managing scalable systems. I am also skilled in developing and implementing network system designs, managing Linux environments, working with virtual machines and cloud platforms, and utilizing some programming languages.

## EDUCATION

### BINUS UNIVERSITY

Sep 2022 - Sep 2026 (Expected)

Bachelor of Computer Science: 3.25/4.00 GPA

Relevant Course: Program Design Method, Database Technology, Computer Network, Computer Security, Cloud Infrastructure, Linux System Administrator & Security, Network Security Fundamental, Popular Network Technology.

## WORK EXPERIENCE

### SOFTWARE TECHNICAL SUPPORT (INTERN)

Feb 2025 - Present

HashMicro

- Assisted customers in troubleshooting, diagnosing, and resolving software-related issues.
- Evaluated and prioritized reported issues based on severity to ensure timely resolution.
- Managed cases and maintained consistent communication with customers through regular updates and follow-ups.
- Provided direct technical support and customer service via phone, email, and in-person.
- Contributed to the knowledge management process by creating, updating, and utilizing support documentation.

## ORGANIZATION EXPERIENCE

### ACTIVIST OF EDUCATION

Feb 2024 - Feb 2025

Cyber Security Community Binus

Student Activity Unit to collaborative learning, knowledge-sharing, and experience exchange in the field of cybersecurity.

- Research content ideas and create cybersecurity-related content.
- Keep updated with developments in the field of cyber security.
- Managed the CyberGeeks program, delivering monthly cybersecurity-focused educational content on Instagram.

## SKILLS

### Hard Skills:

**Programming** (Python, Bash, Shell, SQL), **Container & Orchestration** (Docker, Kubernetes, Helm), **Source Code Management** (Git, GitHub, GitLab), **Infrastructure as Code** (Terraform), **Continuous Integration/Continuous Delivery** (Jenkins, Gitlab CI/CD), **Operating System** (Windows, Linux), **Database** (PostgreSQL, MySQL), **Cloud Platform** (Azure, AWS), **Virtualization** (VMware), **Network & Security** (TCP/IP, Firewall, Cisco Packet Tracer, Wireshark, NMAP), **Reverse Proxy** (Nginx, Apache, Traefik).

### Certifications:

Fortinet Certified Fundamentals Cybersecurity (Fortinet), Cloud Essentials (IBM), Introduction to Cybersecurity (Cisco).

### Languages:

Indonesia (Native), English (Conversational).

## PROJECTS

### HOME-SCALE NETWORK ATTACHED STORAGE (NAS) | [Documentation](#)

Developed and implemented a centralized file storage system by repurposing HG680P set top box into a home-scale NAS solution. The system features tunneling-based remote access (Tailscale), multi-user authentication (Samba), and real-time file synchronization across devices (Syncthing).

Tech Stack: Linux Armbian, Casa OS, Tailscale, Syncthing, Samba.

### LINUX SYSTEM ADMINISTRATION & SECURITY | [Documentation](#)

Developed and implemented a security hardening solution for a PHP application deployment on Ubuntu Server. The project involved deploying the application on a DigitalOcean virtual instance, followed by applying robust server hardening techniques. These included automating system updates, securing SSH configurations, adjusting firewall rules, refining access controls, and enabling logging for Apache Web Server.

Tech Stack: Bash, Ubuntu Server, Apache Web Server, MySQL, DVWA, UFW, ModSecurity, SELinux.

## **NETWORK SYSTEM DESIGN WITH CISCO PACKET TRACER | [Documentation](#)**

Developed and implemented a network system for the XYZ building, including identifying the necessary devices (access points, switches, routers, servers, PCs, and laptops), selecting appropriate transmission media (both wired and wireless), configuring IP addressing and subnetting, applying routing concepts, and integrating application layer services such as DNS, DHCP, and HTTP.

Tech Stack: Cisco Packet Tracer.

## **CONTAINERIZATION OF FULL-STACK APPLICATION WITH DOCKER | [Documentation](#)**

Developed and implemented a containerization solution for a full-stack application using Docker and Docker Compose, featuring React.js with Vite for frontend, NestJS backend, PostgreSQL database, and Prisma ORM. Implemented multi-stage builds and network isolation patterns to enhance security and optimize container performance.

Tech Stack: Docker, Docker Compose, Bash, React.js, NestJS, PostgreSQL, Prisma ORM, TypeScript, pgAdmin.

## **AUTOMATED INFRASTRUCTURE PROVISIONING WITH TERRAFORM | [Documentation](#)**

Developed and implemented infrastructure as code (IaC) using Terraform to provision an Azure Kubernetes Service (AKS) cluster integrated with Azure Container Registry (ACR). The infrastructure features automated scaling capabilities, high availability through multi-zone deployment, secure networking with custom VNet/subnet configuration, and proper RBAC implementation.

Tech Stack: Terraform, Git, Azure Kubernetes Service (AKS), Azure Container Registry (ACR), Azure Virtual Networks (VNet).

## **FULL-STACK APPLICATION DEPLOYMENT WITH AZURE KUBERNETES SERVICE | [Documentation](#)**

Developed and implemented a container orchestration solution for a full-stack application using Azure Kubernetes Service (AKS). The deployment features an Nginx-based ingress controller, horizontal pod autoscaling (HPA) for dynamic scaling based on CPU and memory metrics, rolling update strategies to ensure zero-downtime deployments, persistent storage for the database, and health monitoring through readiness and liveness probes.

Tech Stack: Kubernetes, Azure Kubernetes Service (AKS), Azure Virtual Network (VNet), Azure Container Registry (ACR), Azure Container Networking Interface (CNI), Azure Managed Disks.

## **CI/CD PIPELINE FOR CONTAINERIZED APPLICATIONS WITH JENKINS | [Documentation](#)**

Designed and implemented a CI/CD pipeline using Jenkins and Docker to automate the build, test, and deployment processes for a web application. The pipeline pulls the latest code from a GitHub repository, manages Docker containers, builds versioned images, pushes these images to a Docker registry, and deploys updated containers.

Tech Stack: Jenkins, Docker, Docker Hub, Docker Compose, Git, GitHub, Bash.

## **VOLUNTEER EXPERIENCE**

### **FRESHMEN LEADER**

**Jun 2024 - Sep 2024**

*Binus University*

Freshmen Leader (FL) is a mentor for freshmen during the orientation program held before the start of the first semester.

- Organized and led informational sessions to help freshmen understand the system and culture at BINUS University.
- Established positive relationships with freshmen, encouraging them to actively engage in the provided activities.
- Provided both academic and non-academic support to assist freshmen in adapting to the university environment.
- Successfully assisted 10 freshmen in completing their orientation program.

### **EQUIPMENT & LOGISTIC STAFF OF STUDENT ORGANIZATION EXPO**

**Jul 2024 - Aug 2024**

*Cyber Security Community Binus*

Student organization expo is an event organized during the orientation period to introduce student organizations to new students.

- Conducted vendor outreach and negotiations to procure merchandise aligned with event requirements and budget.
- Closely coordinated and monitored vendor activities to ensure all services were delivered according to agreed-upon standards and timelines.
- Successfully improved the efficiency of logistics operations and reduced the potential risk of delays and other issues during the event.

### **PUBLIC RELATIONS STAFF OF CSC BOOTCAMP**

**May 2024 - Aug 2024**

*Cyber Security Community Binus*

CSC Bootcamp is an intensive training program that aims to improve skills or learn new expertise in the field of cyber security.

- Manage relationships with various media partners to enhance public participation and raise awareness of Bootcamp events.
- Designed and implemented a communication strategy through social media to attract potential participants.
- Successfully boosted social media engagement and reach during the campaign period, resulting in over 70 new participants.