

Zhafran Rama Azmi

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Profile

Informatics engineering graduate specializing in systems administration, backend architecture, and infrastructure deployment. Highly experienced in architecting bare-metal and homelab environments using Fedora, managing containerized workflows via Docker and Podman, and implementing infrastructure-as-code with Ansible. Recognized as one of 136 Distinction Cloud Graduate among 1,000+ peers in the Bangkit Academy 2024 Cloud Computing cohort. Actively engaged with the open-source community to improve system utilities. Eager to apply backend theoretical knowledge to develop high-performance infrastructure, supported by a data-driven approach and a strong commitment to continuous learning.

Skills & Technologies

Specialties	Cloud, Linux System Administration, Backend Development, Devops
Deployment & Virtualization	Podman, Docker, Quadlets, Docker Compose, Ansible, Libvirt, Proxmox, KVM/QEMU
Backend & DB	Node.js, Hapi, PostgreSQL, MariaDB/MySQL, SQLite
Cloud & Networking	GCP, AWS, Cloudflare, Cisco, Mikrotik, Nginx
Programming & Scripting	Python, Java, JavaScript, Bash, SQL
Notation & Configuration	TOML, INI, YAML, JSON, XML
Monitoring & Analytics	Prometheus, Grafana, Excel, Pandas, Seaborn
Languages	Indonesian (Native), English (Fluent - TOEFL ITP: 620)

Education

Bachelor of Computers Science in Information Engineering

Brawijaya University, Malang | Aug 2021- January 2026

GPA: 3.72

Paper: Comparative Evaluation of Btrfs Space Savings Between White-box VM Images and Black-box VM Images Using Deduplication

Organizations & Volunteer Activities

- **Head of Backend Division**

POROS | 2023 & 2024

Directed study groups and backend program initiatives, fostering technical skill development and best practices among division members.

- **IT Support Specialist**

Gemastik | 2022

Configured and routed network infrastructure for the event, ensuring reliable and secure connectivity for all competition participants. Provided on-site standby support during live competitions.

- **Cloud Computing Member**

ICN LAB | 2022 - 2025

Collaborated on cloud infrastructure research and deployments, expanding collective knowledge on virtualization and scalable environments.

Deployed Computer Network Studies practicum laboratories within proxmox.

Experience

- **Practicum Assistant of Operating Systems Studies**

Brawijaya University | 2023 & 2024

Instructed over 100 students across multiple classes on operating system principles, facilitating hands-on lab sessions to improve practical understanding of Linux environments.

Evaluated student assignments and provided technical troubleshooting support to ensure the successful completion of practical exams.

- **Practicum Assistant of Computer Network Studies**

Universitas Brawijaya | 2023

Guided a class of 30 students in operating a mini-internet project, enhancing their understanding of routing and network configurations.

Administered the project laboratory infrastructure, maintaining stable network environments for student experiments and troubleshooting issues.

- **Cloud Computing Cohort**

Bangkit Academy Batch 1 | 2024

Engineered a data scraping pipeline to aggregate images across multiple platforms, accelerating model training for the Machine Learning team.

Developed the backend API for the ArtSense application and orchestrated its deployment on Google Cloud Platform's Compute Engine to ensure high availability.

Hosted finished AI model made by the Machine Learnign team on Google Cloud Platform's Bucket Storage.

Projects & Contributions

- **Waydroid Contribution**

<https://github.com/waydroid/waydroid/>

Authored and merged a codebase update handling symbolic links and block device files, improving filesystem compatibility for the Android-in-Linux container runtime.

- **Self Hosted Private Cloud Infrastructure**

[Source Code not public]

Architected a private cloud environment (rushingalien.my.id) utilizing Nextcloud and Collabora Office, implementing Cloudflare Tunnels and local BIND9 DNS for secure, remote accessibility.

- **ArtSense Capstone API**

<https://github.com/C241-PS216/ArtSense-API>

Designed and deployed a scalable backend application using Node.js, hosting machine learning models on GCP Cloud Storage and serving the API via GCP Compute Engine.

- **Skripsi-Playbook**

<https://github.com/RushingAlien/skripsi-playbook>

Created an infrastructure-as-code Ansible playbook to automate the provisioning of the thesis testing environment, significantly reducing manual setup and teardown time.

- **Systemd-Zram-Writeback**

<https://github.com/RushingAlien/systemd-zram-writeback>

Configured a systemd service to initialize and manage zram writeback operations, optimizing memory and swap utilization on Linux systems.

Professional Certification

Google Associate Cloud Engineer | Google

https://www.credly.com/badges/5c1160bb-c54e-4c1c-9908-61c30a7d2e19/public_url

TOEFL ITP Unofficial Student Score Report (620) | Brawijaya Language Center × ITP

<https://toeflrutin.blc.ub.ac.id/hasiltes/download/?nim=215150207111025>