Daniel Adamlu

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Summary

DevOps- and infrastructure-focused engineer specializing in scalable systems, cloud-native operations, and high-availability architectures. Alongside my undergraduate studies, I serve as a Network Administrator at the Software Laboratory Center (SLC), where I manage Kubernetes clusters, strengthen organizational infrastructure, implement automation pipelines, and maintain mission-critical networks that support university-wide operations.

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, C#, Kotlin, Go, PHP, C, SQL
Frameworks: .NET Core, Laravel, Gin, Node.js, Express.js, Flask, React
Technologies: Git, Docker, Kubernetes, Terraform, MySQL, PostgreSQL, Firebase

Experience

Network Administration and Technical Support Staff   *West Jakarta*
Software Laboratory Center, BINUS University   *Feb 2025 – Present*

- Mapped and documented the organization's full network topology using CDP and LLDP, improving visibility and troubleshooting efficiency across the infrastructure.
- Built CI/CD pipelines with GitHub Actions and FluxCD, enabling automated integration and GitOps-driven Kubernetes deployments.
- Led the migration from Docker-based hosting to a fully managed Kubernetes cluster, strengthening reliability, observability, and deployment consistency.
- Designed a High Availability Galera database cluster for mission-critical applications, ensuring redundancy and zero-downtime failovers.
- Re-engineered the internal LINE Bot from an unstructured Express.js implementation into a modular Go service, significantly improving scalability, maintainability, and response performance.
- Managed internal web applications and standardized the deployment workflow for new systems, ensuring stable releases and reliable application lifecycle management.

PPTI Teaching Assistant (Computer Networks)   *Sentul City*
BCA Learning Institute   *Jun 2024 – Nov 2024*

- Delivered lectures and hands-on practicums in Computer Networks, covering subnetting, routing, ACLs, and troubleshooting, and reinforced learning through practicum-based assessments.

PPTI Teaching Assistant (Data Structures)   *Sentul City*
BCA Learning Institute   *Jan 2024 – May 2024*

- Taught core data structure concepts including linked lists, stacks, queues, hash tables, BSTs, AVL trees, heaps, and graphs, reinforcing understanding through reviews and practicum-based assessments.

Junior Laboratory Assistant   *West Jakarta*
Software Laboratory Center, BINUS University   *Sep 2023 – Jan 2025*

- Conducted practicum sessions, supporting students through technical concepts and hands-on laboratory work.
- Completed *Tes Progresif Asisten* (TPA), a structured self-development and competency-building program for laboratory assistants.
- Designed the System & Network Administration case for new assistant recruitment, featuring a full-stack web application (React TypeScript + Laravel), Docker Swarm orchestration, HAProxy load balancing, and MikroTik network configuration.
- Rebuilt "New RESMAN," the laboratory resource management system, using React and .NET Core 8, modernizing workflows and improving maintainability.

Education

BINUS University   *West Jakarta*
Bachelor of Computer Science   *Sept 2022 – Present*

- ○ **GPA:** 3.89/4.0
- ○ **Specialization:** Software Engineering

Achievements

Best Research Interest Group – Even 2024/2025   *Aug 2025*

Recognized for designing and implementing a High Availability Galera Database Cluster that strengthened the organization's backend infrastructure and improved system resilience.

Best Performing Assistant Diploma – Even 2023/2024   *Aug 2024*

Awarded as the top-performing assistant among 20 candidates for outstanding contributions, reliability, and excellence in supporting laboratory operations.