

Aldi Kurniawan Tampubolon

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Professional Experience

Institut Teknologi Del – Backend Development & Programming Fundamentals Sep 2023 – Present

Learned and implemented core programming and web development concepts, including:

- Programming fundamentals using C, algorithms, and data structures
- Dynamic web development with HTML, CSS, JavaScript, and PHP
- Database design and integration using MySQL
- Understanding operating systems, computer architecture, and software engineering principles
- Collaborated in small projects using Git and maintained proper technical documentation

Institut Teknologi Del – Networking, Server Management & DevOps Jan 2024 – Present

Deepened understanding of backend systems, server configuration, and distributed systems, including:

- Managing and configuring Linux/Ubuntu servers, deployment with Docker and Nginx
- Backend API development using Python (Flask) integrated with databases
- Understanding computer networks, virtualization, and distributed system architecture
- Configuring web servers, DNS, and network routing using Cisco Packet Tracer and GNS3
- Introduction to embedded systems and IoT using Arduino for real-world applications

Education

Institut Teknologi Del - D3 Computer Technology Aug 2023 – Oct 2026 (expected)

- **Relevant Coursework:** Programming Fundamentals, Data Structures, Database Systems, Web Development, Computer Networks, Operating Systems, and Software Engineering.

Projects & Certifications

Campus Log System with AI Face Recognition 2025

- Automated campus entry/exit system using Flutter, Firebase, and Face++ API with real-time backend

Batak Cultural Heritage Website 2024

- Created an educational web platform on Batak Toba ceremonies using PHP, JavaScript, and MySQL

Smart Trash Can with Arduino 2024

- Built an IoT waste management system with sensors, servo motor, and LCD for automated capacity alerts

Cisco Networking Essentials 2025

Networking Basics 2025

JavaScript Essentials 1 2023

Python Essentials 1 2025

Introduction to IoT and Digital Transformation 2025

Introduction to Cybersecurity 2023

Skills

Languages: Python, Dart, PHP, JavaScript, C++, C, SQL, HTML, CSS, Kotlin,

Technologies: Flutter, Flask, Laravel, OpenCV, DeepFace, Arduino, REST API, Nginx, GitHub Actions

Platforms: MySQL, PostgreSQL, MongoDB, Firebase, AWS EC2, GCP, VirtualBox, Apache, Linux Server