

# Fathan Yazid Satriani

South Jakarta, Indonesia

+62 813-9869-6033 | [fathanyazidsatriani@gmail.com](mailto:fathanyazidsatriani@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

### Universitas Indonesia

Bachelor of Engineering in Computer Engineering; GPA: 3.75/4.00

Depok, Indonesia

Expected June 2027

### SMAN 34 Jakarta

Diploma of Maths & Sciences; Grade: 89.11/100

South Jakarta, Indonesia

Aug 2020 – Jun 2023

## EXPERIENCE

### PT. Pharos Indonesia

AI (Computer Vision) & Mechatronics Intern

South Jakarta, Indonesia

Dec 2025 – Present

- Developing computer vision models for the NPD Pharmalogic Department to automate quality control.
- Integrating mechatronics systems with AI pipelines to enhance manufacturing efficiency.

### Universitas Indonesia (Faculty of Engineering)

Laboratory & Teaching Assistant

Depok, Indonesia

Feb 2025 – Dec 2025

- Laboratory Assistant for Physics Lab:** Facilitated experiments twice a week and graded technical reports for mechanical and electrical physics modules.
- Teaching Assistant for Computational Thinking Class:** Mentored and graded students in algorithmic logic and Python programming.

### Ikatan Mahasiswa Elektro FTUI

Vice Head of Academics and Professions

Depok, Indonesia

Jan 2024 – Dec 2025

- Led strategic academic initiatives and professional development programs for the student body.
- Previously served as Staff of Academics (2024), coordinating peer tutoring and study resources.

## PROJECTS

### WikiScrolls App | Flutter, Go, Neo4j, Docker, LLM

- Co-developed an educational platform transforming Wikipedia articles into "TikTok-style" audiovisual content.
- Implemented frontend using Flutter and integrated LLM summarization with Text-to-Speech engines.

### Akpro IME Web | Astro, TypeScript, Figma

- Designed UI/UX and developed the frontend for a centralized academic hub used by engineering students.
- Streamlined access to modules, schedules, and curriculum info, improving resource accessibility.

### Draw Battle Game | React, Express.js, PostgreSQL, Socket.io

- Built a real-time multiplayer drawing and guessing game featuring live chat and synchronized canvas.
- Managed full-stack integration between React frontend and PostgreSQL backend via Socket.io.

### Custom Linux Shell | C Language, Linux CLI

- Developed a functional CLI shell handling command execution, foreground/background process management, and IPC via pipes.

### Network Infrastructure Design | Cisco Packet Tracer, OSPF, EIGRP

- Campus Network: Designed VLANs, subnetting, and OSPF routing for university-scale connectivity.
- WAN Architecture: Simulated Frame Relay and PPP topologies connecting HQ to branch offices.

### AES-128 Hardware Accelerator | VHDL, ModelSim, Quartus Prime

- Designed a high-performance hardware accelerator for AES-128 encryption.
- Authored VHDL code for the core encryption process and validated integrity via testbenches.

### Smart Drop-Box | C++ (ESP32), FreeRTOS, Blynk IoT

- Architected a secure package delivery system with OTP authentication and cloud monitoring.
- Orchestrated system concurrency using FreeRTOS and developed the mobile interface via Blynk.

### Noir - Noise & Air Quality Monitor | AVR Assembly, Proteus

- Programmed sensor data processing in Assembly to control audio/visual alerts for environmental monitoring.

### Parking Counter System | Digital Logic, Proteus

- Designed a logic circuit using counters and flip-flops to track parking availability in real-time.

## TECHNICAL SKILLS

**Languages:** C/C++, C#, Java, Python, JavaScript, TypeScript, GoLang, Dart, VHDL, Assembly, LaTeX, Markdown

**Web Development:** React, Next.js, Astro, Express.js, FastAPI, Django, Flutter, HTML/CSS (Tailwind)

**Database:** PostgreSQL, MySQL, MongoDB, Redis, Neo4j

**Hardware & IoT:** ESP32, Arduino, FreeRTOS, Proteus, ModelSim, Cisco Packet Tracer

**AI/ML:** TensorFlow, PyTorch, OpenCV, YOLO

**Tools/Design:** Git, Docker, Figma, Canva, Adobe, Trello, Jira

## CERTIFICATIONS & AWARDS

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**English Proficiency:** TOEFL ITP: 627 — EPT (UI): 643 (Index A)

**Competitions:** Technoskill 1.0 Web Dev (PIPTEK IME FTUI), Exertion Competitive Programming (EXERCISE FTUI)

**Science Olympiads:** Winner of Amaze with Science, National Science Olympiad (OSN) Math Participant