

Athilla Zaidan Zidna Fann

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EDUCATION

Institut Teknologi Bandung

B.Eng. in Computer Science — GPA: 3.94/4.00

Bandung, Indonesia

Sep. 2024 – Aug. 2028

PROJECTS

Grandsummit 15th Website | *Next.js, React, TypeScript, Tailwind CSS, Supabase, Google Drive API*

- Built a registration platform handling **200+ users** and **1,000+ file uploads** via dual-track BCC/MCC flows with Supabase Auth, Postgres, Storage, and Row-Level Security.
- Engineered a dual-storage upload pipeline using Supabase Storage and Google Drive API with OAuth2/Service Account failover, team-folder automation, and Google Sheets sync.
- Implemented profile-completeness middleware, email-based admin ACL, and optimized production performance with Turbopack and React Compiler.

Mjolinir | *Go, React, TypeScript, Vite, Tailwind CSS, Docker*

- Developed a digital library system with a Go backend for image-based book search using PCA and text recommendation using LSA/SVD.
- Built backend services to process book-cover datasets, compute similarity scores, and serve search/recommendation results to a React + TypeScript frontend.
- Dockerized frontend and backend services with separate production builds and environment-based API configuration.

Malam KeOS Ini | *C, x86, Operating Systems, EXT2, Scheduler, Makefile*

- Built a custom 32-bit x86 operating system from scratch with protected mode, paging, interrupt handling, keyboard input, VGA rendering, and user program execution.
- Implemented an EXT2-like filesystem supporting nested directories, file operations, path resolution, and Unix-like shell commands such as `ls`, `cd`, `mkdir`, `cat`, `cp`, and `mv`.
- Developed multitasking with a round-robin scheduler, process management commands, custom system calls, and user programs including clock, music player, Snake, and Bad Apple ASCII playback.

Cognify | *Python, scikit-learn, Isolation Forest, SHAP, Pandas, NumPy* Harvard HSIL Hackathon Indonesia

- **4th Place out of 241 teams nationwide.** Built an unsupervised passive-monitoring system to detect ADHD relapse and functional decline from smartphone behavioral metadata.
- Engineered behavioral drift features from OBF-Psychiatric and StudentLife datasets, including sleep duration, screen fragmentation, app switching, and screen-time variability.
- Designed a 3-layer anomaly detection framework using Z-score deviation, Isolation Forest, and SHAP-based scoring, achieving **0.846 AUC-ROC**, **77.4% F1**, and **4.7-day early-warning lead time**.

EXPERIENCE

Fullstack Developer

IT Aku Masuk ITB 2026

Oct. 2025 – Feb. 2026

Bandung, Indonesia

- Built FindMi, a fullstack merchandise e-commerce platform using React, Vite, Tailwind CSS, generating **IDR 200M+** in revenue.
- Architected the Aku Masuk ITB platform serving **10,000+ users**, with RSVP reservations, multi-participant registration, barcode generation, Talkshow Registration, and Lost & Found workflows.
- Developed admin tooling for revenue analytics, department/division breakdowns, QR-based OTS pickup verification, instant ticket caching, and offline-resilient ticket display.

Head of Information Technology

StudentxCEOs Grandsummit 15th

Feb. 2026 – Present

Bandung, Indonesia

- Led a **7-person** team of developers and UI/UX designers to ship the event platform end-to-end across registration, file upload, admin dashboard, and operational workflows.
- Managed **30+ feature requests** from Marketing, Operations, Finance, and Competition divisions through sprint-based GitHub workflows, weekly standups, and iterative delivery.

Frontend Developer

Oct. 2025 – May 2026

TEDxITB 9.0

Bandung, Indonesia

- Built the TEDxITB 9.0 frontend using Next.js, React, TypeScript, and Tailwind CSS, leveraging App Router Server Components for SEO and Client Components for interactive commerce flows.
- Crafted interactive event experiences with Framer Motion, animated carousels, countdowns, responsive hero sections, admin order tables, OpenGraph metadata, and programmatic sitemaps.

Technology Development Intern

Oct. 2025 – Mar. 2026

Inkubator IT

Bandung, Indonesia

- Owned client communication and delivered a polished Next.js, React, TypeScript, and Tailwind CSS platform from complex Figma designs with glassmorphism UI and Framer Motion animations.
- Built a Brand DNA Quiz system with React Context, weighted scoring, custom SVG radar charting, and instant multi-axis personality profiling.
- Developed a serverless marketing-intelligence digest using Next.js Route Handlers to fetch, transform, cache, and render categorized external news data.

LEADERSHIP

President

2026 – 2027

Keluarga Mahasiswa Jambi ITB

Bandung, Indonesia

- Authored **Restorasi Cahaya**, a **241-page** organizational blueprint covering SWOT/TOWS analysis, vision-mission, implementation strategy, organogram, work directives, management strategy, and program design for KMJ ITB.
- Designed and led a governance structure spanning **9 strategic units**: Tim Ad Hoc, Secretariat General, Multicampus Governor, and **6 core departments** across Internal, Member Development, Media & Design, External, Member Welfare, and Culture.
- Coordinated **8 functional divisions** across Internal, Member Development, Media & Design, and External to strengthen organizational foundations, regeneration, member welfare, cultural identity, and external impact.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Go, C, C++, Java, SQL, HTML/CSS, Haskell

Frontend: React, Next.js, React Native, Tailwind CSS, Framer Motion, Zustand, TanStack Query

Backend & Cloud: FastAPI, Hono, PostgreSQL, Drizzle ORM, Supabase, Docker, Vercel, Azure VM, REST API, JWT/Auth.js

AI / ML: PyTorch, Hugging Face Transformers, scikit-learn, SHAP, Pandas, NumPy, NLP, Anomaly Detection, Random Forest, Isolation Forest, Explainable AI

Computer Vision: UNet++, EfficientNet, Semantic Segmentation, Transfer Learning, Albumentations, TTA, K-Fold CV, Model Ensembling, OpenCV