ARYASATYA ALAAUDDIN

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Full-stack developer with experience in building scalable web applications and backend services. Skilled in modern web technologies including Next.js, React, and Node.js, with hands-on experience in building responsive and reliable systems. Possess strong foundations in algorithms and data structures, with a strong interest in solving real-world problems through technology.

Education

Institut Teknologi Sepuluh Nopember (ITS) (Surabaya, Indonesia) Aug 2023 - Present
Bachelor of Computer Science, 3.83/4.00

Experiences

Society of Renewable Energy ITS (SRE ITS SC) (Surabaya, Indonesia) Jul 2025 - Present
Director of Web Development
- Led a cross-functional engineering team of 11 developers to deliver and maintain the full-scale web-based organizational platform, aligning technical implementation with operational needs.
- Designed and implemented an administrative dashboard and automated validation system to support participant selection and operational workflows.
- Implemented automated CI/CD pipelines with GitHub Actions to improve deployment reliability, enforce code quality standards, and reduce integration errors across the system.

Institut Teknologi Sepuluh Nopember (ITS) (Surabaya, Indonesia) Feb 2026 - Jun 2026
Laboratory & Course Assistant of Cloud Computing
- Instructed classroom lectures and facilitated hands-on laboratory sessions for the Cloud Computing course, serving as lead instructor (PIC) for Ansible infrastructure automation.
- Authored comprehensive laboratory modules, practicum examination problem sets, and grading rubrics covering Docker, Docker Compose, Ansible, and Logging & Monitoring.
- Evaluated and graded student practicum submissions, administering server environment setups and mentoring undergraduates on containerization and cloud infrastructure.

Badan Eksekutif Mahasiswa (BEM) ITS (Surabaya, Indonesia) Mar 2025 - Apr 2026
Front-End Developer
- Developed a multi-language localization feature improving accessibility for 20,000+ university students, enhancing usability across diverse user groups.
- Optimized frontend performance and resolved critical rendering issues, improving page load efficiency and overall user experience.
- Built scalable, reusable UI components using Next.js and Tailwind CSS based on high-fidelity UI/UX design specifications and stakeholder requirements.

Himpunan Mahasiswa Teknologi Informasi ITS (HMIT ITS) (Surabaya, Indonesia) Feb 2025 - Feb 2026
Staff of Research and Technology Department
- Led backend development by designing robust API architectures and translating organizational requirements into scalable backend solutions.
- Designed a web development curriculum and onboarding program (IT Junior Preps) to prepare students with industry-level skills, in collaboration with Hacktiv8.

ARA 6.0 (Cybersecurity & IoT Event) (Surabaya, Indonesia) Nov 2024 - Mar 2025
Frontend IT Development Expert Staff
- Took full ownership of developing and implementing 8+ critical features, from slicing high-fidelity landing pages (Home, OlimpIT) to engineering complete front-end logic for authentication and registration.
- Delivered essential components across the platform, including user-facing event portals, dynamic intake forms, and an internal administrative dashboard for merchandise management.
- Collaborated closely within a dynamic 17-member IT team to drive technical execution of a national-scale event website, ensuring high performance and responsive design.

Petroleum Integrated Days (Petrolida 2025) (Surabaya, Indonesia) Oct 2024 - Mar 2025
Frontend Web Development Staff
- Collaborated effectively within a 29-member cross-functional IT team (FE, BE, UI/UX, QA) to develop and deliver the official website for Petrolida, an international energy competition.
- Developed 5+ critical features, heavily focusing on engineering multi-event registration funnels for international participants across Lovol, Petrovis, and City Tour.
- Implemented a real-time order tracking page to provide participants with live updates on their competition registration status and merchandise orders.

Ini Lho ITS! 2025 (Surabaya, Indonesia) Oct 2024 - Apr 2025
Frontend IT Development Staff
- Sliced and integrated the Welcome School Nasional (WSN) registration platform, connecting dynamic form UI seamlessly with backend REST APIs.
- Sliced the 'Bimbel' preparation dashboard and integrated profile update APIs to ensure real-time participant data synchronization.
- Authored clean, reusable code across 7 features, including sub-event pages, modals, and an internal admin dashboard for merchandise management.

Institut Teknologi Sepuluh Nopember (ITS) (Surabaya, Indonesia) Aug 2024 - Apr 2025
Assistant Lecturer of Programming Technique and Algorithm
- Instructed and mentored undergraduate students in foundational C programming, structured algorithmic logic, memory management, and pointers.
- Authored learning modules, designed weekly programming laboratory assignments, practicum exam problem sets, and official answer keys.
- Evaluated and graded weekly lab coding submissions and practical examinations, conducting code reviews to foster clean coding standards and efficient problem-solving.

Projects

VitaGo ATS Resume Builder | React 19, TypeScript, Tailwind CSS, Vite, WCAG 2.1 AA | vita-go.vercel.app
Precision ATS Document Engine & Design System
- Engineered a client-side document compiler with a dynamic auto-scaling algorithm, millimeter-accurate CSS paged media, and native vector PDF export.
- Crafted an accessible design system conforming to WCAG 2.1 AA standards, featuring zero-layout-shift preview rendering and keyboard-first navigation.

Steam Review AI Intelligence Pipeline | Python, FastAPI, BERT, Kafka, PySpark, Trino, Docker | github.com/Ax3lrod/final-project-big-data
Large-Scale Streaming & Conversational Data Processing System
- Designed and implemented an end-to-end data pipeline processing 6.4M+ text records using Apache Kafka for real-time streaming and PySpark for distributed batch preprocessing.
- Built an AI classification pipeline fusing fine-tuned BERT transformer embeddings with anomaly detection (Isolation Forest, K-Means) to detect fraudulent text patterns.
- Developed high-throughput REST APIs with FastAPI to serve sub-200ms model inferences and orchestrated 9+ containerized services using Docker Compose.

CiviGo Public Service Platform | React, Next.js, TypeScript, PostgreSQL (Supabase), Vitest | github.com/Ax3lrod/civigo
Public Service Booking & Civic Queue Management System
- Built a full-stack civic service platform with Next.js web dashboard and RESTful route handlers on Supabase PostgreSQL with Server Actions.
- Designed relational database schemas with migration scripts, location-based query filters, and role-based access control for administrative workflows.
- Authored automated unit and integration test suites with Vitest, ensuring robust API endpoints and high-reliability data validation.

Achievements

- **2nd Place — GEMASTIK XVIII (Smart City Division)**: National ICT Competition (Puspresnas / Kemendikbudristek) Oct 2025
  Proposed 'ARJUNA', an adaptive flood early warning platform utilizing digital twin concepts and machine learning.
- **3rd Place — FIT Competition 2025 (Web Development Category)**: Faculty of Information Technology (FTI UKSW) Aug 2025
  Built SustainaMap, an interactive environmental awareness web application with map visualization and personal air quality metrics.

Skills

- **Design Engineering & Frontend:** React, Next.js (App Router), TypeScript, Tailwind CSS, Radix UI, Framer Motion, Lenis Smooth Scroll, HTML5/CSS3, Responsive Design, Design Systems, Core Web Vitals
- **Backend & Cloud Infrastructure:** Node.js, Express, NestJS, RESTful APIs, Server Actions, PostgreSQL, Prisma ORM, Supabase, Docker, Docker Compose, Ansible
- **Engineering, State & Tooling:** Git, GitHub Actions (CI/CD), Zustand, TanStack Query, Vitest, Jest, React Hook Form, Zod, Biome, Linux, C/C++, Figma to Code