Adrian Yu

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Skill

Languages: Java, Go, C#, PHP, JavaScript, TypeScript, Python, C, C++

Technologies & Tools: Spring Boot, Gin, .NET Core, Laravel, NestJS, Node.js, React, Vue.js, JUnit, Jest, Vite, SQL, Redis, MongoDB, REST APIs, gRPC, Git, Github Actions, Jenkins, Docker, Kubernetes, MinIO, RabbitMQ, Apache Kafka, Microservices, Linux

Work Experience

Application Developer, Bina Nusantara University – West Jakarta, Jakarta   Feb 2025 – Present

- Developed an Attendance Management System for 120+ internship students using React, Express, and MySQL, enforcing location-based attendance validation.
- Developed an Android electricity usage tracker with Jetpack Compose and Room, enabling households to monitor consumption and estimate energy costs.
- Developed an Online Learning Platform for bootcamp-style training using React, Laravel, and MySQL, supporting structured course access and delivery.

Database Administrator, Bina Nusantara University – West Jakarta, Jakarta   Aug 2024 – Present

- Managed and published laboratory scores for 30,000+ students/semester across 6 campuses, ensuring accuracy and seamless integration with BINUSMAYA.
- Revamped a legacy ASP.NET MVC system into .NET Core + React with TanStack Query, enabling cross-division data access and configurable course rules.
- Coordinated laboratory quiz and exam appendix schedules across 6 campuses, resolving conflicts and ensuring on-time execution with operations teams.
- Produced yudisium analytics for 30,000+ students/semester and validated data for 100+ assistant honorariums.
- Optimized database operations by managing 15+ SQL Server Agent jobs, improving performance via indexing, materialized views, stored procedures, and query tuning.

Laboratory Assistant, Bina Nusantara University – West Jakarta, Jakarta   Aug 2023 – Aug 2024

- Instructed 20+ classes and mentored 600+ students across core CS subjects including Algorithms, Databases, Networks, HCI, Computer Vision, and Scientific Computing.
- Designed 6 practicum exam cases, graded 500+ submissions, and served as Database Subject Coordinator during New Assistant Recruitment, managing case quality and teaching/evaluation task distribution.
- Completed TPA modules covering Web, Mobile, Game, Networking, and Business Applications (React, TypeScript, Go, Kotlin, Unity, Docker, Linux, Firebase, PostgreSQL, etc.).

Education

Bina Nusantara University – West Jakarta, Jakarta   Sep 2022 – Sep 2026
Bachelor of Computer Science, Software Engineering (Streaming)

- GPA: 3.92/4.0
- **Coursework:** Algorithm and Programming, Data Structures, Human and Computer Interaction, Algorithm Design and Analysis, Computer Networks, Artificial Intelligence, Database Technology, Object Oriented Programming, Software Engineering, Code Reenginering, Pattern Software Design, Agile Software Development, Operating System, Competitive Programming

Project

Atlantis
React, TypeScript, Tailwind, Shadcn, TanStack Query, .NET Core, EF Core, Microsoft SQL Server, IIS

- Developed an internal web system serving over 200 staff and coordinators.
- Implemented promotion registration and Best Assistant voting features.
- Built academic data mapping and internal file download modules.
- Developed schedule and course management functionalities.
- Technologies: React, TypeScript, Tailwind, Shadcn, TanStack Query, .NET Core, EF Core, Microsoft SQL Server, IIS

Attendance Management
React, TypeScript, Tailwind, Express, Prisma, MySQL, WebSocket, Docker

- Developed a web-based attendance system used daily by over 120 students.
- Implemented location-based check-in validation for attendance integrity.
- Built real-time attendance code generation using WebSocket.
- Automated attendance reporting with Excel export support.

MiniShop
Vue3, TypeScript, Vue Query, Zod, Pinia, Tailwind, Shadcn, Spring Boot, Java, Lombok, Hibernate, Flyway, MapStruct, MinIO, MySQL

- Built a full-stack e-commerce system with product, category, and inventory management.
- Implemented secure JWT-based authentication with role-based authorization.
- Developed complete order lifecycle management with status tracking.
- Integrated MinIO for scalable product image storage and retrieval.

Travelohi
React, TypeScript, Styled Components, Go, Gin, Gorm, PostgreSQL, Firebase, Canvas, WebSocket, Python, Flask

- Developed a full-stack travel booking platform for flights and hotels with real-time availability.
- Implemented booking management, seat selection, and hotel room handling.
- Integrated WebSocket features for real-time games.
- Built loyalty programs, reviews, and user profile management features.

Linkasa
React, TypeScript, Bootstrap, Firebase, Electron

- Developed a desktop application for managing airport operations and real-time workflows.
- Implemented flight scheduling, passenger services, and baggage handling systems.
- Built staff, logistics, and equipment management modules.
- Integrated real-time communication via chat and broadcast messaging.

TemanMabar
Laravel, Tailwind, Flowbite, MySQL

- Built a gaming platform with user authentication and customizable profiles.
- Implemented team, competition, and match management features.
- Developed discussion forums and social interaction modules.
- Integrated order and payment processing for in-platform services.

GymMe
ASP.NET, C#, Bootstrap, Crystal Report

- Developed an e-commerce platform for gym supplement sales using ASP.NET Web Forms.
- Implemented product management, inventory tracking, and expiration monitoring.
- Built shopping cart, checkout, and transaction history features.
- Generated transaction reports using Crystal Reports.

Award and Certificate

- Case Maker TPA (Test Progressive Assistant) Web Design and Programming.
- Candidate of Best Performing Assistant Odd Semester 2023/2024.
- Candidate of Best Performing Assistant Even Semester 2023/2024.