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, JUnit, Jest, SQL, Redis, MongoDB, Git, GitHub Actions, Jenkins, Docker, MinIO, RabbitMQ, Apache Kafka, Microservices, Linux

Work Experience

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

- Developed a web-based Attendance Management System supporting 120+ internship students using React, Express, and MySQL, featuring location-based attendance validation and real-time attendance code generation.
- Developed an Android electricity usage tracking application using Jetpack Compose and Room, enabling households to monitor power consumption and estimate energy costs.
- Developed an online learning platform for bootcamp-style training using React, Laravel, and MySQL, supporting structured course access and content delivery for final-year students.

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

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

Teaching Assistant, PT Bank Central Asia Tbk (BCA) – Bogor, West Java   Jan 2024 – May 2024

- Assisted instruction in Python-based scientific computing using NumPy, SciPy, and Matplotlib.
- Guided 80+ students in implementing numerical methods (equation solving, interpolation, regression, integration).
- Reviewed code, debugged implementations, and supported practical sessions and exercise evaluation.

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 (Test Progressive Assistant) 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, Computer Networks, Software Engineering, 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 200+ staff and coordinators.
- Implemented promotion registration and Best Assistant voting functionalities.
- Built academic data mapping and internal file download modules.
- Developed schedule and course management functionalities.

Attendance Management
React, TypeScript, Tailwind, Express, Prisma, MySQL, WebSocket, Docker
- Developed a web-based Attendance Management System supporting 120+ internship 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
Vue, TypeScript, Vue Query, Zod, Pinia, Tailwind, Shadcn, Spring Boot, Java, Hibernate, Flyway, MinIO, MySQL
- Built an e-commerce system with product and category management.
- Developed complete order lifecycle management with status tracking.
- Implemented role-based access control and secure authentication for admin and user operations.
- Integrated MinIO for image storage and retrieval.

Travelohi
React, TypeScript, Styled Components, Go, Gin, Gorm, PostgreSQL, Firebase, Canvas, WebSocket, Python, Flask
- Developed a travel booking platform for flights and hotels.
- Implemented booking management, seat selection, and hotel room handling.
- Integrated WebSocket features for real-time multiplayer games.
- Built promos, 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
- Developed a gaming social platform to help users find and connect with others to play games together.
- 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.
- Implemented product management, inventory tracking, and expiration monitoring.
- Built shopping cart, checkout, and transaction history features.
- Generated transaction reports using Crystal Report.