

I Wayan Agus Darmawan

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PROFESSIONAL SUMMARY

Computer Engineering student at FTEIC ITS and the Lead Programmer for the Barunastra ITS Roboboat Team. With over three years of experience in web development, I am proficient in using React, Next.js, and AdonisJS. Currently, I am focused on and passionate about web and iOS development, including learning SwiftUI.

EDUCATION

SMAN Bali Mandara	Science GPA : 89	July 2018 – June 2021
Institut Teknologi Sepuluh Nopember	Bachelor in Computer Engineering GPA : 3.47	June 2021 – Present

EXPERIENCE

- Internship Full-stack Developer [Company Career Web]** | PT. Satkomindo Mediyasa February 2024 – Present
- Developed frontend and backend for the dashboard, CV log feature, and authentication system using AdonisJS, React Vite, Ant Design, Tailwind CSS, and Zustand.
 - Created role management for user/admin roles with CRUD operations, automated PDF CV generation, and integrated a rich text editor for job descriptions. Managed dynamic data updates and ensured seamless admin review tracking.
 - Overcame cache issues and file validation problems, navigated complex Ant Design configurations, and adapted to documentation challenges, gaining valuable experience in backend operations, RESTful APIs, and Docker.
- Electro-Programming Division Leader** | Barunastra ITS April 2022 – Present
- Assisted with ASV testing and object dataset processing in the International Roboboat Competition 2022, contributing to the Grand Champion title.
 - Main programmer for ASV in the International Roboboat Competition 2023 and KKCTBN 2023, developed program using ROS1 and YOLOv4 Tiny 3L, achieving the Grand Champion title.
 - Led Electro-Programming Division for IRC and KKCTBN 2024, overseeing ASV development.
 - Led ATSV sub-division and programming team in KKCTBN and International Roboboat Competition 2024, achieving 1st place in KKCTBN and 3rd place in the International Roboboat Competition, mainly using ROS2 Humble and YOLOv8.
- Navigation Programmer ITS Ocean Survey USV** | ITS - PT. Robomarine Indonesia July 2023 – December 2023
- Developed algorithms for Autonomous Surface Vehicles (ASVs) to follow mapping routes efficiently.
 - Implemented obstacle avoidance using camera (YOLO) and LiDAR to ensure safe survey navigation.
 - Created a control interface for the USV using Next.js, roslib.js, and Tailwind CSS, enhancing usability.
 - Integrated ITS software with PT Robomarine's mechanical systems to provide a comprehensive USV solution.
- Frontend Developer** | MAGE 9 ITS January 2023 – February 2024
- Developed the frontend for the event's website using Next.js, Tailwind CSS, and Firebase.
 - Implemented user authentication with secure login and registration, forgot password functionality, email verification, and multi-platform login using Firebase Authentication [[github](#)].

TEACHING EXPERIENCES

- Assec Education** | IT Research Mentor April 2023 – Present
- Provided advice, evaluation, and monitoring to high school and junior high school students regarding their ideas and innovations as outlined in the report for the KOPSI [Embedded System] and FIKSI [App, Mobile and Web Application] competitions until the report was finished.
- Computer Engineering ITS** | Practicum Assistant and Grader April 2023 – October 2023
- Assisted students in understanding advanced programming concepts, particularly in modules related to STL and OOP.
 - Supervised and graded students based on their practical skills, established clear evaluation criteria, closely monitored their progress, provided constructive feedback, and ensured fairness to encourage growth and improvement.
 - Grader for Introduction to Robotics and Digital Signal Processing.

PROJECTS

- IoT Traffic Light Monitoring and Management System** | React Vite, ShadcnUI, Adonis.js April 2024 – May 2024
- Developed an IoT application to monitor traffic lights using ESP modules and HTTP signals, supporting different user roles (superadmin, admin, technician). Features include role management, real-time status updates, and responsive design
- Personal Portfolio Website** | Next.js, Tailwind CSS, PostgreSQL, Prisma March 2024 - May 2024
- Created a dynamic personal portfolio website displaying blogs, projects, and other content fetched from separate MDX repositories, eliminating the need for redeployment when adding new content. Utilized modern technologies for a seamless user experience.
- Thread Clone iOS17** | Swift, SwiftUI, Firebase April 2024 – May 2024
- Developed a thread clone application using SwiftUI and Firebase. The application offers secure user authentication, thread creation, profile management, and an intuitive user experience. Future plans include features such as likes and replies.

TECHNICAL SKILLS

Languages : Python, C/C++, SQL (Postgres, MySQL), JavaScript, TypeScript, Swift
Frameworks : ROS, YOLO, Node.js, Adonis.js, React, Vite, Next.js, TailwindCSS, SwiftUI
DevOps and API Tools : Git/Github, Docker, Linux, Postman
Others : Data Modeling, Agile (Scrum/Kanban), Design Patterns, Debugging, Root Cause Analysis

SOFT SKILLS

Collaboration : Team player, skilled at working in diverse groups to achieve shared goals.
Problem-Solving : Strong analytical skills to identify issues and implement effective solutions.
Adaptability : Flexible and capable of adjusting to new environments and technologies quickly.
Leadership : Experience in leading teams and projects, fostering a collaborative environment.

AWARDS AND CERTIFICATIONS

Deep Dive iOS 17 Swift / SwiftUI Programming	Udemy	April 2024
SwiftUI + SwiftData Masterclass - iOS App Development Swift	Udemy	March 2024
3rd Place International Roboboat Competition	Robonation.inc	February 2024
1st National Autonomus Tourism Surace Vessel	Puspresnas	October 2023
Grand Champion International Roboboat Competition	Robonation.inc	March 2023
Grand Champion International Roboboat Competition	Robonation.inc	February 2022