Ahmad Ferdiansyah Ramadhani

Surabaya, East Java • ahm.f.ramadhani@gmail.com • linkedin.com/in/ahmad-ferdiansyah-ramadhani

I have extensive experience in software development, particularly in front-end, back-end, and cloud computing. I am proficient in using Vue.js, Golang, Nodejs, React.js and Basic infrastructure at Google Cloud Platform. The software I have developed has been recognized for its robustness, as evidenced by the awards have received in various competitions and also have software contribution in some companies.

WORK EXPERIENCE

Delta HQ   **10/2024 - Present**
Back End Developer   **Surabaya, East Java, Indonesia**

- Create and Maintenance features in two teams:
- Visamane: Visa and work hours Management based in Japan which manages companies employee. The system use Django.
- PMS: Product Management System which works in hospitality. Market mostly in Singapore, Japan and Indonesia. The system use Golang.

GoTo Group   **08/2023 - 12/2023**
Software Engineer   **Jakarta Selatan, Jakarta, Indonesia**

- Part of 32 interns at GoTo, selected over 7600++ applicants under Kampus Merdeka program batch 5 from ministry of education Indonesia
- Managing KPI metrics data from 15++ teams at Transport and Driver platform then manage and visualize these via Spreadsheet using Sheets API v4
- Inject middleware to get order number and request ID through Golang-context
- Create OTP component in front end Web Concierge dashboard

PT PLN Nusantara Power   **05/2023 - 08/2023**
Full Stack Developer   **Gresik, East Java, Indonesia**

- Build an integrated monitoring system. Using vue.js, tailwind CSS, typescript, pinia for global state management for front-end. On the back-end, utilizing node.js and express for API and session management also dev an integrated server with Postgres database. Additionally, also implement docker for deploy the app.

IRIS ITS   **05/2021 - 06/2023**
Programming Division   **Surabaya, East Java, Indonesia**

- Create software for connecting and communicating as data streams between robot soccers (also known as basestations) and referee box (software as a referee during the matches). The software is based on a web browser and utilizes UDP multicast - unicast, TCP, socket.IO, roslib.js, ROS (Robot Operating System) and node.js as the back-end and Vue.js as the front-end framework. The software must meet certain requirements such as real-time animation and communication, as well as be stable and robust.

EDUCATION

Bachelor's degree in Informatika
Institute Technology Sepuluh Nopember (ITS) • GPA: 3.65/4.00 (cumlaude)   01/2020 - 01/2024

CERTIFICATIONS

2nd place National Scientific Paper   11/2022 - Present
University of Jember

1st winner National Indonesia Robotic Contest 2022 (Wheeled Robosoccer) 07/2022 - Present
Kementerian Pendidikan dan Kebudayaan (Ministry of Education and Culture Republic of Indonesia)
Back-End Expert 02/2024 - 02/2027
Dicoding Indonesia

AWARDS & SCHOLARSHIPS

Best Strategy Indonesia Robotic Contest 2023 06/2023
Pusat Prestasi Nasional
1st place Cooperation Challenge Robocup Asia Pacific 11/2022
RoboCup Asia-Pacific
1st place Open Challenge Robocup Asia Pacific 11/2022
RoboCup Asia-Pacific
2nd winner National ICT Scientific Paper Himasif Univ. Jember 11/2022
University of Jember
1st place wheels robotic on Indonesia Robotic Contest 2022 07/2022
Pusat Prestasi Nasional
3rd place RoboCupSoccer middle size in Bangkok, Thailand 07/2022
RoboCup Federation

PROJECTS

Chatbot Using Retrieval Augmented Generation (RAG) 02/2024 - 07/2024
For my final project in my Bachelor's program, I created a chatbot that answers questions based on documents. When a question is asked, the chatbot searches through the documents (PDF or text) to find the relevant information and generate an answer

Project Capstone Bangkit - Recommendation Places App in Yogyakarta 06/2023 - 07/2023
I contributed to developing a recommendation system for hangout places in Yogyakarta, focusing on bars, cafes, and restaurants. Helped design and implemented the cloud architecture, which included two microservices deployed on Cloud Run.

Basestation IRIS 08/2022 - 05/2023
I developed a platform for managing and monitoring autonomous robotic competitions for the KRI (Indonesia Robotic Contest) and RoboSoccerCup middle-size league. Used Vue.js, Pinia, Tailwind CSS, and Vue-Konva for the front-end, enabling real-time rendering and communication. On the server side, users could switch between Node.js and Robot Operating System (ROS) with Socket.IO and ROSLib.js for real-time interaction. I built both JavaScript and C++ back-end implementations to process robot data and send it back in real-time for control and front-end animations. I implemented UDP multicast, UDP unicast, and TCP protocols for efficient data exchange, adhering to a 2 Mb/s communication limit. The basestation integrated with the referee box to process real-time data and send commands to robots. The software earned recognition, securing 1st place at the Indonesia Robotic Contest 2022 and 3rd place at RoboCupSoccer Middle Size 2022.

Front-end website IRIS ITS 08/2022 - 09/2022
As a key contributor to the IRIS ITS website project, I played a crucial role in all captivating landing pages using Next.js and Tailwind CSS. The IRIS ITS website serves as a powerful online platform that showcases the innovation and achievements of the Institute of Robotics and Intelligent Systems (IRIS) at the Institut Teknologi Sepuluh Nopember (ITS). In this project, i utilized Next.js, a cutting-edge React framework, and the versatile Tailwind CSS library to create visually stunning and responsive landing pages. Each landing page was meticulously crafted to effectively communicate the unique value propositions and key messages of IRIS ITS.

VOLUNTEERING & LEADERSHIP

Bangkit led by Google, Goto, and Traveloka   02/2024 – 07/2024
Mentor
TEDxITS   02/2022 – 08/2022
Web Developer

SKILLS

Django, docker, Flask, gofiber, golang, Go (Programming Language), gRPC, Mock, Next.js, Node.js, PostgreSQL, python, React.js, Tailwind CSS, TypeScript, Unit Testing, vitest, Vue.js