

Adrian Santoso

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Profile

A freelance software engineer with a diverse range of clients and 2 years of experience in website development. Graduated from Department of Informatics at Institut Teknologi Sepuluh Nopember and have specialised in software engineering. Interested in deepening knowledge of cyber security and artificial intelligence by continuing master's degree.

Education

Institut Teknologi Sepuluh Nopember (ITS), Indonesia

07/2019 – 09/2023

Bachelor of Computer Science (B.CS.) from Department of Informatics, graduated with Cum Laude predicate and GPA of 3.82 out of 4.00. Participated in campus and departmental organizations and served as a teaching assistant for several courses.

Research and Publication Experience

Undergraduate Thesis

09/2022 – 08/2023

This research was conducted as the main requirement for the Bachelor of Computer Science degree. The project title was *Design Subdomain Budgeting Application Based on Onion Architecture with Domain Driven Design Paradigm for Institut Teknologi Sepuluh November Scope*. It aimed to reconstruct the campus financial application and added several business processes to better support the stakeholders associated with the application. The research was published within the campus's internal environment and scored an A grade.

Work Experience

PT. Global Digital Niaga (Blibli.com)

Jakarta, Indonesia (Remote)

Backend Software Engineer Intern

02/2022 – 02/2023

Worked as a backend software engineer intern in a team called enticement where primarily involved managing member data like address, membership levels, and wishlists. The responsibilities included sending emails to all users regarding the points they earned from item purchases. Developed two scripts for database indexing and monitoring invalid data. Implemented unit testing and integration testing to ensure the application working properly.

Department of Informatics ITS

Surabaya, Indonesia

Teaching Assistant

09/2021 – 06/2022

Worked as a teaching assistant to support lecturers in courses such as Object Oriented Programming (OOP), which had forty students, and the Design Analysis Algorithm class, which included eight international students. The responsibilities included evaluating and assessing assignments submitted by students and provided feedback on their assignments and tests.

Technical Skills

Programming language : C, C++, Java, Javascript, PHP, Python

Website programming : HTML, CSS, Laravel, Spring Boot, Ajax, Jquery

Database : MySql, PostgreSQL, MongoDB, Redis

Message broker : Kafka

Organizational Activity

Association of Informatics Engineering Students ITS

Surabaya, Indonesia

Welfare Staff

05/2021 – 01/2023

The Welfare Department of the Informatics Department at ITS took charge of academic activities for all informatics students. The responsibilities included coordinating a fundamental programming tutoring session for freshmen. Acquired forty new study materials comprising of PowerPoint presentations, books, quizzes and tests. Oversaw the course registration process for informatics students.

Christian Student Fellowship ITS Media Information Staff

Surabaya, Indonesia
02/2020 – 01/2021

The Media Information Division was responsible for overseeing organization's social media and data of Christian students and lecturers at ITS. The responsibilities were updating the database for students, alumni, and lecturers with the latest information two times a year. Developed a website to enhance data management and become a platform for broadcasting information about organization's activities. Created daily reflections that were distributed on organization's social media platforms from Monday to Saturday for three weeks.

Projects

Private project for a surgeon pursuing a specialist at Airlangga University Fullstack Software Developer (Patient infusion fluid application)

Surabaya, Indonesia
09/2023 – 11/2023

Controlled the management of infusion fluids with features like pagination and searching. Calculated essential patient nutrition elements, such as protein, calory, sodium and potassium. Determined automatically appropriate infusion fluid combinations based on individual dietary consumption capacities. Conducted simulations allowing independent selection of infusion fluids and provided summaries of the total infusion fluids chosen.

Institut Teknologi Sepuluh Nopember Fullstack Software Developer (Budgeting application)

Surabaya, Indonesia
02/2023 – 07/2023

Created a detailed Chart of Accounts for transaction breakdown and designed a program framework to organize activities in each unit in ITS. Prepare activities for the next school year with cost breakdowns for each goods and services that will be bought. Implemented validation checks to ensure alignment about budgets and work plans. Facilitated multi-level approvals from various ITS leadership figures who responsible for the activities.

Dwi Citra Anugrah Company Fullstack Software Developer (Sand supplier application, Team: 3 people)

Surabaya, Indonesia
08/2021 – 10/2021

Developed an automated script for generating sand suppliers to database. Organized sand suppliers with features for creation, reading, updating, and deletion. Designed a cost calculation system for sand procurement with considering several factors like vehicle type, supplier, and purchase volume.

Christian Student Fellowship ITS Fullstack Software Developer (Christian Organization Application, Team: 6 people)

Surabaya, Indonesia
09/2020 – 12/2020

Implemented a versatile user and role management system that granted distinct permissions to various roles. Facilitated a counseling request system and prayer request feature to students who need psychological help. Developed data monitoring feature that included import and export capabilities for Christian students, lecturers, and alumni.

Certifications

Udemy

1. Learn ACID, Indexing, Partitioning, Sharding, Concurrency control, Replication, DB Engines, Best Practices and More! (Date finished: 09/2023)
2. Master Redis v7.0 with hands-on exercises. Includes Modules, Scripting, Concurrency, and Streams (Date finished: 08/2022)
3. Learn to build enterprise standard Kafka producers/consumers with Kafka Unit/Integration tests using Spring Boot (Date finished: 07/2022)

4. Master MongoDB Development for Web & Mobile Apps. CRUD Operations, Indexes, Aggregation Framework - All about MongoDB! (Date finished: 06/2022)
5. Spring Boot 3: Learn Spring 6, Spring Core, Spring REST, Spring MVC, Spring Security, Thymeleaf, JPA, Hibernate, MySQL (Date finished: 04/2022)

Dicoding Indonesia

1. Fundamental Android Application (Date earned: 11/2021, Certification Number: MRZMKJQGKPYQ)
2. Architecting on AWS (Date earned: 6/2021, Certification Number: NVP718V7RPR0)
3. Cloud Practitioner Essentials (Date earned: 4/2021, Certification Number: KEXL3LW84PG2)

Huawei

1. HCIA Machine Learning (Date earned: 8/2021, Certification Number: 010102001808454371229126)

Languages

Indonesian : Native proficiency
English : Full professional proficiency, IELTS Score 6.5

Reference

Rizky Januar Akbar, M.Eng.

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