DIMAS ANDHIKA FIRMANSYAH

Undergraduate Computer Engineering and Informatics Education

PERSONAL DETAILS

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PROFILE

Undergraduate Information and Computer Engineering Education Program at Semarang State University, my academic field is centered on a combination of education, science and technology. With a proven history of organizational engagement, I am driven to take on an impactful role where I can leverage my Software engineering skills to solve complex technical dilemmas. Proficient in applying frameworks to optimize processes, my commitment lies in delivering real results through innovative solutions.

EDUCATION

S1, Pendidikan Teknik Informatika dan Komputer   Aug 2021
Universitas Negeri Semarang

EMPLOYMENT

IT Back End Web Develpper   Aug 2024 - Present
SchoolTech Indonesia

- API Design: Create RESTful API endpoints according to project needs and define consistent data structures and response formats.
- Authentication Implementation: Implement authentication and authorization systems, to ensure API access security.
- Middleware Integration: Integrate middleware to handle data validation, rate limiting, or access rights checking.
- Team Collaboration: Work closely with the frontend team and other developers to ensure smooth API integration.
- Documentation: Create API documentation using tools such as Swagger to facilitate further development by the team.

Laboratory Teaching Assistant   Feb 2024 - Jun 2024
Universitas Negeri Semarang, Semarang, Jawa Tengah, Indonesia

- Lab Preparation: Ensure the laboratory is well-prepared before each practical session. This includes checking the availability of equipment, components, and necessary software for experiments.
- Assist Students: Aid students in understanding basic electronics concepts, guide them in applying theory into practice, and provide instructions as they conduct experiments in the lab.
- Provide Explanations: Offer additional explanations or demonstrations to clarify topics taught in theory classes, as well as answer students' questions about challenging concepts.
- Assess Assignments and Labs: Evaluate assignments, lab reports, or projects submitted by students, provide constructive feedback, and give fair assessments.

- Maintain Safety: Ensure that the lab environment is safe to use, comply with safety procedures, and provide guidance to students on how to use equipment safely.
- Collaborate with Faculty: Communicate regularly with the course instructor to ensure that learning objectives are met and provide input on student progress.
- Be a Knowledge Resource: Serve as a reliable source of knowledge for students, ready to help them solve problems or explain complex concepts.

Mentee at Microsoft Web & Mobile Developer   Feb 2024 - Jun 2024
MariBelajar
- Able to understand how to think in a structured way in carrying out business processes
- Able to know the basics of information technology projects, implement project implementation governance and secure project management
- Able to demonstrate knowledge in building business solutions with Microsoft Power Platform
- Able to demonstrate knowledge in building business solutions with Microsoft Power Platform in the form of web and mobile platforms
- Understand the concept of web development and deployment of applications developed with cloud computing
- Know cloud computing concepts for deploying applications and monitoring - Able to design and implement business solutions based on selected problems

Student at Akademi Full Stack Web Developer   Aug 2023 - Dec 2023
PT Nurul Fikri Cipta Inovasi
- Apply the basics of HTML, CSS, and Bootstrap in creating text-based, graphic, and multimedia websites.
- Implement UI/UX (user interface/user experience) design.
- Design and develop algorithms to solve problems with the JavaScript programming language.
- Implement entity design and relationships between entities using SQL, and implement SQL database access with MySQL/MariaDB software.
- Arrange functions, files, or other programming resources in a neat PHP programming language code organization.
- Setting up programming software tools and using libraries or pre-existing components to build web applications with the Laravel framework.
- Using Git and Github in the software development process or document creation.
- Designing web applications that utilize Restful APIs.

PROJECT

Website Desa Jatijajar   Jun 2024 - Aug 2024
The Jatijajar Village Website, created through the "Digitalisasi Administrasi Desa Berbasis Web" program, is a streamlined digital platform aimed at improving village administration. It offers residents easy access to important information, online administrative forms, and updates on village news and activities. The website promotes transparency, enhances service efficiency, and encourages community engagement, making administrative processes more accessible for everyone in Jatijajar Village.

OrgEnroll   Oct 2023 - Dec 2023
OrgEnroll (Organization Enrollment System) is a web-based organizational registration system on campus aimed at simplifying and increasing the efficiency of administrative processes.
This website was created to fulfill the final project of the MSIB program at NF Computer.

Targetku   Feb 2023 - Jun 2023
Targetku is a web-based target piggy bank application that can display recaps in table or graphic form.
This project was created to fulfill the final assignment of a software engineering course.

PUBLICATION

Dimas Andhika Firmansyah, Ahmad Fashiha Hastawan, & Djuniadi Djuniadi. (2023). ANALISIS PERBANDINGAN KOMPRESI CITRA PADA BEBERAPA MEDIA SOSIAL. Jurnal Khatulistiwa Informatika, 11(2), 135-140.

This study analyzes the image compression methods used by several social media platforms. The study compares changes in image quality and file size after being uploaded to platforms such as Facebook, Instagram, and WhatsApp. The results show significant differences in the application of compression algorithms by each platform, with implications for users who want optimal image quality.

ORGANIZATION EXPERIENCE

Event Organizers   Aug 2023 - Oct 2024
Google Developer Student Club UNNES
- to be held by GDSC UNNES
- Guide study jam events for GDSC UNNES members
- Collaborating on events with Dicoding

Department of Talent Interest and Creative Economy   Aug 2023 - Aug 2024
UNNES Pemalang Student Association
- Identify potential or talents related to the areas of interest and creativity of UNNES students from Pemalang
- Plan, organize and manage training and development programs to help talents develop further in the areas of interest of UNNES students from Pemalang.

Expert Staff for Information Technology Development   Jan 2022 - Dec 2022
UKM Riptek
- related to information technology software
- Served as a committee member for one of UKM Riptek's big competition events, namely Technoday
- Became chairman of the committee for one of the event socialization activities, namely the Gemastik Workshop in collaboration with I-Scret

VOLUNTEER EXPERIENCE

Public Relations   Sep 2023 - Oct 2023
Electrical Campus Observation 2023
- Managing internal and external communications.
- Disseminating event information to new students.
- Building relationships with media and external parties for event promotion.

Liaison Officer   Aug 2024 - Sep 2024
GEMASTIK XVII
- Serve as the timer for the Software Development division competition.
- Ensure the competition runs smoothly and stays on schedule by accurately managing time during each session.
- Coordinate closely with participants, judges, and the organizing committee to facilitate a seamless judging process.
- Maintain precision and efficiency to ensure each stage of the competition is conducted within the allocated time.
- Assist in ensuring the competition adheres to the established rules and regulations while keeping everything organized.

SKILLS

Full-Stack Development

Design Thinking

Front-End Web Development

Time Management

Project Management

Project Planning

PHP

HTML

Bootstrap (Framework)

Laravel

GitHub

Microsof Office

Digital Electronics

Web Development

Teamwork

Collaborative Problem Solving

Communication

MySQL

REST APIs

Cascading Style Sheets (CSS)

Back-End Web Development

Git

Full Stack Web Development

LANGUAGES

Bahasa Indonesia

English

CERTIFICATES

Akademi Full Stack Web Developer   Dec 2023

Git and Github   Jan 2024

Belajar Dasar Pemrograman JavaScript   Jan 2024

Frontend - HTML   Jan 2024

Belajar Dasar Pemrograman Web   Jan 2024

Frontend - CSS   Feb 2024

Alibaba Cloud Certified Developers   Feb 2024

Belajar Membuat Front-End Web untuk Pemula   Feb 2024

Sertifikat Kelas Belajar Dasar HTML   Feb 2024

Website Development Fundamental   Apr 2024