

Prans Daniel Simarmata

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Balige, North Sumatera, Indonesia

I am an IT student, specifically majoring in Informatics/Computer Science and specifically studying and having an interest in the field of Software Engineering. I have the ability in several software development technologies, databases, proven by my experience in building several applications from desktop, web-based, until now I am exploring mobile-based. I am also studying artificial intelligence and machine learning to apply to my software development process. At the same time, I also develop my soft skills in the form of communication and collaboration by being active in organizations and communities.

Education Level

Del Institute of Technology - Sitoluama, Indonesia

Aug 2022 - Present

Bachelor Degree in Informatics

- Current GPA: 3.64/4.00 (100 credits)
- Recipient of the High Academic Performance Scholarship for outstanding GPA
- Achieved regional finalist status in ONMIPA-PT 2023, showcasing excellence in mathematics
- Relevant Courses: Web-based Application Development, Object Oriented Programming, Database, Software Engineering, Software Project Management, Data Structure and Algorithm, Software Design and Analysis, Software Testing and Quality Assurance, Machine Learning

Experience

Del Institute of Technology - Sitoluama, Indonesia

Feb 2025 – Present

Student Teaching Assistant Software Engineering

- Assisting students with questions or issues related to Introduction to software engineering course materials.
- Develop additional learning materials, such as practice questions, presentations, or additional reading materials, to help students better understand engineering and software design concepts.
- Helping students to do practical work in learning and introducing tools such as draw.io or coda

Del Institute of Technology - Sitoluama, Indonesia

Mei 2024 – Dec 2024

Fasilitator

- Assisting in redesigning the website of SMA N 1 Balige, which is a community service program
- analyze the structure and content of similar school websites that are used as a comparison so that the website can be developed to attract visitors
- observations and analyze the features that will be developed
- doing manual testing when the website is finished and make sure it is in accordance with the requirements

Del Institute of Technology - Sitoluama, Indonesia

Aug 2023 – Dec 2023

Student Teaching Assistant Calculus

- Mentoring 40+ students for 1 semester to understand each concept of Calculus I and solve the mathematical problem
- Work in Information System Bachelor's Program and Electrical Engineering Bachelor's.
- Guiding problem-solving sessions and providing feedback on assignments to strengthen analytical skills.
- Supporting the instructor by preparing teaching aids and facilitating review sessions for key topics.

Organizational Experience

Himpunan Mahasiswa Informatika

Nov 2024 - Present

Head of Research and Technology Division

- Actively participating in the activities organized by the student association, including meetings, seminars, workshops, and other social events.
- Contributing creative ideas and suggestions to develop the association's programs and enhance the quality of its activities.
- Carrying out maintenance on the association's website and developing the website

Project experience

The Career Development and Alumni Relations Website

Oct 2024 – Dec 2024

Website Developer

- This project is a career development and alumni website, where this website will be used by alumni as users and PPKHA as admins, in this website there are several features such as job vacancies, company lists, articles, news and announcements managed by the admin.
- I as a Full stack developer and scrum master, help work on this project in front-end implementation using Bootstrap and JS, backend using PHP Laravel, Database using MariaDB, version control using Github, testing using Katalon, and using the Agile Scrum framework in team collaboration.

Artificial Intelligence : Go Game Solver Using Depth-First Search (DFS)

Oct 2024

- Analyze application requirements, conduct a literature review of its implementation.
- Model a problem-solving method for the Go game using the Depth-First Search (DFS) algorithm to calculate the number of "freedoms" of stones or groups of stones.

Aucutions

Sep 2024 – Oct-2024

Website Developer

- This project is an auction website, this website is an application-based website with several features, namely adding auctions, making offers, deleting and editing auctions, this website uses the react.js framework and uses API.

BookHive, Book Management App

Nov 2023 - Des 2023

Fullstack Developer

- Application that helps organize and create a list of books that are being read and also archived. So this application is like a personal library.
- Role as full stack developer, implementing front-end using NetBeans Java Swing, backend using Java, database using PostgreSQL and version control using Git.

Skills

- **Programming:** PHP, Laravel, C, Bootstrap, JavaScript, React, Java, Python, Kotlin.
- **Tools:** Git, GitHub, Coda, Postman, Visual Studio Code, Android studio.
- **Database:** PostgreSQL.
- **Soft Skill:** Math, Agile, Scrum, Project Lead, Communication, Problem Solving, Teamwork.
- **Language:** Indonesian (Native), English (beginner)