Joshua Pratama Silitonga

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EDUCATION

Binus University (Online Learning)	Bachelor's degree Information System	(Nov 2023 - Present)
Del Institute of Technology	Associate's degree Information Technology GPA: 3,78	(Aug 2020 – Sep 2023)
Tun Hussein Onn University of Malaysia	Scholarship Mobility Student (IISMA) Information Technology	(Oct 2022 – Feb 2023)

TECHNICAL PROFICIENCIES

Programming Language	C, C++, C#, PHP, Java, JavaScript, Golang, Kotlin, Python
Database System	MySQL, SQL Server, PostgreSQL, MongoDB
Technologies & Framework	Git, Rest API, Laravel, CodeIgniter, ASP.Net, jQuery, Gin, Echo, Fiber
Other Skills	Competitive Programming, Web Development, Mobile Development, System Analyst, Project Management, Data Analyst, Machine Learning

WORK EXPERIENCE

• **Software Engineer (Fullstack)**	PT Indonesia Comnets Plus (PLN Icon Plus)	(Dec 2023 – Present)
• **IT Analyst, HCIS Intern**	PT Perusahaan Gas Negara (Persero) Tbk.	(Jun 2023 – Aug 2023)
• **IT Support Intern**	Opero Hotel Southkey, Malaysia	(Nov 2022 – Feb 2023)
• **Teaching Assistant of Introduction to Database Course**	Del Institute of Technology	(Feb 2022 – Jun 2022)
• **Teaching Assistant of Discrete Mathematic Course**	Del Institute of Technology	(Aug 2021 – Dec 2021)
• **Full Stack Developer Intern**	CV Yada Ekidanta	(May 2021 – Jul 2021)

ORGANIZATIONAL EXPERIENCE

• **Student Executive Board**	- Head of Multimedia Division, Department of Science and Technology	(Jun 2022 – Jun 2023)
	- Member of Department of Science and Technology	(Jun 2021 – Jun 2022)

- **Del Cyber and Security Club**   Member of Programming Division   (Nov 2020 – Jun 2023)
- **Inaguration, Dies Natalies and Graduation**   Event Committee   (Aug 2022 – Oct 2022)
- **Student Creativity Program Internal**   Deputy Head of Student Creativity Program Internal Information Technology Student Association 2021/2022   (Nov 2021 – May 2022)
- **Del Matchematic and Science Competition**   Multimedia Committee   (Mar 2022 – April 2022)
- **Del Internal Language Cup**   Event Committee   (Oct 2021 – Dec 2021)

PROJECTS

- **Solar Power Plant Monitoring System (Sistem Monitoring PLTS)**   (Dec 2023 – Present)
  The "Solar Power Plant Monitoring System" is as a web-based platform that designed to monitor and manage various data parameters originating from solar power plants across Indonesia. This application is engineered with a cutting-edge microservice architecture, leveraging the robust capabilities of Golang for its backend infrastructure. Meanwhile, the frontend interface of the system is meticulously crafted using React Typescript, ensuring a seamless and intuitive user experience.

- **Employees Retirement System (SI SAKTI – YKPP)**   (Jun 2023 – Aug 2023)
  The "Employees Retirement System (SI SAKTI)" is a web-based application developed using PHP with the Codeigniter 3 framework. This application was designed for the Yayasan Kesejahteraan Pendidikan dan Perumahan (YKPP) PT Perusahaan Gas Negara Tbk. It encompasses features enabling the management of employee and retiree databases, as well as the administration of active employees' contribution funds and the allocation of benefit funds for retirees and their families.

- **Indonesia Covid Prediction Deep Learning Model**   (Jan 2023 – Jun 2023)
  The "Indonesia Covid Prediction Deep Learning Model" is a deep learning model created utilizing the LSTM algorithm for predicting daily COVID-19 infection cases in Indonesia. This model has the capability to forecast daily case data for the upcoming 30 days, demonstrating a highly accurate performance with a minimal Mean Absolute Percentage Error (MAPE) metric value of 16.72%.

- **Delstat**   (Mar 2022 – Jun 2022)
  "Delstat" is an Android application designed to enhance the learning experience for the Probability and Statistics Course. This application was developed using the Kotlin programming language and leverages Jetpack along with other third-party Android libraries. It was specifically designed to interact with a REST API constructed using Laravel 9.

- **Data Integration System – MoPWH (Sistem Integrasi Data – Kementrian PUPR)**   (May 2021 – Jul 2021)
  The "Data Integration System (Sistem Integrasi Data)" is an Information System dedicated to data integration, owned and operated by the Ministry of Public Works and Housing of the Republic of Indonesia. This system was originally developed using Native PHP as the programming language and MySQL for the database management. I have received an assignment from the CEO of Yada Ekidanta to undertake the task of reconstructing and enhancing this Data Integration System.

- **Laguboti SME Information System (Sistem Informasi UMKM Laguboti)**   (Mar 2021 – Jun 2021)
  The "Laguboti Small Medium Enterprises Information System (Sistem Informasi UMKM Laguboti)" is a web-based application aimed at facilitating the promotion of small and medium enterprises in Laguboti, Toba Regency. This web application was meticulously developed utilizing Laravel 8 as the core framework and MySQL as the database management system. Its primary purpose is to empower SME owners to effectively manage their SME-related data, products, geographical information, and other relevant details.