

Carlos Pardomuan Purba

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As a student of Informatics, I am passionate with a Focus on Machine Learning, Project Manager, Website Engineer and Tester. I am always willing to put in the necessary effort to ensure successful completion of tasks and projects. I have a strong curiosity and enjoy learning new things as I develop my skills in the world of technology.

Education Level

Del Institute of Technology - Toba, Indonesia

Aug 2022 - Sep 2026 (Expected)

Bachelor Degree in Informatics, 3.34/4.00

- Focused on Machine Learning, software development and project management.
- Proficient in programming languages such as HTML, CSS, R, Java, PHP, JavaScript, SQL, and Python.

Balige 2th Public Senior High School - Toba, Indonesia

Aug 2019 – Jun 2022

Natural Sciences

- Understanding and applying the principles of physics, chemistry, biology, and mathematics to comprehend the universe and natural phenomena.
- Development of analytical and problem-solving skills essential for contemporary science and technology.

Experience

PT. Media Karya Prestige International - Depok, Indonesia

August 2024 – Present

Website Developer Staff

- Developed and maintained responsive, user-friendly websites using modern web technologies.
- Collaborated with teams to implement functional and visually appealing web solutions.
- Integrated APIs, optimized performance, and ensured cross-browser/device compatibility.
- Conducted testing, debugging, and updates to enhance functionality and user experience.

Del Institute of Technology - Sitoluama, Indonesia

August 2024 – Desember 2024

Teaching Assistant Computer Networks

- Assisting students with questions or issues related to Computer Networks course materials, including understanding network protocols, configurations, and troubleshooting concepts.
- Compiling supplementary learning materials, such as practice exercises, detailed protocol explanations, presentations, or recommended reading resources, to help students gain a deeper understanding of networking principles and practical applications.
- Guiding students in lab activities, such as network simulation or setup tasks, to reinforce theoretical knowledge through hands-on experience.
- Providing feedback and clarifications on assignments and projects to ensure students meet course objectives and develop critical problem-solving skills in networking.
- Supporting the instructor by preparing teaching aids and assisting in delivering tutorials or review sessions for complex topics in computer networks.

Del Institute of Technology - Sitoluama, Indonesia

August 2024 – Desember 2024

Teaching Assistant Probability and Statistics

- Assisting students with questions on Probability and Statistics course materials, including probability theories, statistical methods, and data analysis.
- Preparing supplementary materials, such as practice problems, visual aids, and recommended readings, to enhance understanding.
- 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.

Universitas Brawijaya - Malang, Indonesia

Jul 2024 – August 2024

Statistics and Data Science

- Data Science Methods I : Introduced me to key data analysis techniques used in data science, including handling large and complex datasets
- Data Visualization Techniques : Taught me how to transform data into informative and compelling visualizations, making interpretation and data-driven decision-making easier.
- Neural Networks : Deepened my understanding of neural network architecture, model training, and their applications in prediction and classification.
- Data Mining : Showed me how to extract patterns and valuable information from large datasets using specialized techniques and algorithms.

Apple Developer Academy @Infinite Learning - Batam, Indonesia

Jun 2024 – Jul 2024

iOS App Developer

- I am diving into iOS development, learning how to create impactful apps that can make a difference in people's lives. The hands-on experience and collaborative environment here is truly invaluable.

Soko Financial – Yogyakarta, Indonesia

April 2024 – Jul 2024

Product Development

- Conducting market research to understand customer needs, preferences, and relevant industry trends.
- Designing product concepts that meet customer requirements while considering quality, functionality, and aesthetics.
- Building product prototypes for testing and concept validation before mass production.
- Conducting product testing to ensure performance, safety, and compliance with standards. Identifying issues and implementing continuous improvements.
- Designing efficient and effective production processes to consistently produce products at affordable costs.
- Managing product launches into the market, including marketing strategies, distribution, and customer support.
- Monitoring product performance post-launch, gathering customer feedback, and implementing necessary improvements or further developments.

Del Institute of Technology - Sitoluama, Indonesia

August 2023 – Juni 2024

Student Leadership

- Leading and providing guidance to dormitory residents, including rules, schedules, and daily activities. Offering advice and support in addressing personal issues or difficulties.
- Providing support and motivation to dormitory residents to achieve optimal academic performance. Encouraging participation in learning activities and assisting in overcoming learning challenges.
- Handling conflicts or issues among dormitory residents with wisdom and fairness, and providing solutions that promote cooperation and understanding.

Del Institute of Technology - Sitoluama, Indonesia

Jan 2024 – Juni 2024

Teaching Assistant Introduction to Engineering and Design

- Assisting students with questions or issues related to Introduction to Engineering and Design course materials.
- Compiling supplementary learning materials, such as practice questions, presentations, or additional reading materials, to help students better understand engineering and design concepts.

Del Institute of Technology - Sitoluama, Indonesia

Jan 2024 - Jun 2024

Teaching Assistant basic physics II

- Assisting students with questions or issues related to physics course materials
- Compiling supplementary learning materials, such as practice questions, presentations, or additional reading materials, to help students better understand physics concepts

Del Institute of Technology - Sitoluama, Indonesia

Sept 2023 - Dec 2023

Teaching Assistant basic physics I

- Assisting students with questions or issues related to physics course materials
- Compiling supplementary learning materials, such as practice questions, presentations, or additional reading materials, to help students better understand physics concepts

Del Institute of Technology - Sitoluama, Indonesia

November 2023

Speaker at "DIPTEK Goes to School" Events

Delivered presentations to junior high school students at SMPN 1 Pintupohan Meranti on topics related to technological advancements, inspiring them to aspire to become future Indonesian digital talents.

Del Institute of Technology - Sitoluama, Indonesia

September 2023

Tour Escort

Member of the Escort Committee in the Inauguration, Dies Natalis, and Graduation Ceremony at Institute Teknologi Del Sitoluama, Sumatera Utara, Indonesia, 22-23 September 2023.

Del Institute of Technology - Sitoluama, Indonesia

August 2023 – Sept 2023

Assistant of Matriculation

- Leading around 450+ new students in operating the tech support provided by the campus, and students successfully operating campus mailing, campus information systems, and campus courses.
- Equip new students with basic knowledge needed before entering college, such as Programming Basic, Multimedia Basic, Microsoft Office, and students can successfully master the basic of Java Programming Language, Basic of Photoshop and Canva, Basic of Microsoft Word, PowerPoint and Excel.

Del Institute of Technology - Sitoluama, Indonesia

August 2023

Competition and Prize Division

Member of the Competition and Prize Division. Designing large-scale competitions and prizes involving participants from a single sub-district.

Del Institute of Technology - Sitoluama, Indonesia

August 2023

Event Organizer and Supervisor

- Orchestrated a district-level Quiz Competition event attended by over 500 high school and middle school students.
- Supervised the examination session and offered guidance on its execution.

Organizational Experience

Google Developer Student Club – Institut Teknologi Del

Sept 2023 - Present

Member

- Studying various fields such as data science, mobile development, and web engineering.
- Participating in every challenge and seminar activity available.
- Engaging in projects led by leaders to foster growth.

Himpunan Mahasiswa Informatika – Institut Teknologi Del

Augst 2022 - Present

Member

- 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.

Department of Science and Technology– Institut Teknologi Del

Juli 2023 – August 2024

Member of Event Division

- Orchestrated social campaigns addressing crucial topics including cybersecurity, the applications and advantages of technology, strategies to prevent hacking, and various other technology-related themes.
- Coordinated training sessions and workshops focused on enhancing students' comprehension and proficiency in technology.
- Developed event schedules for each departmental project, such as hosting initiatives and similar endeavors.

Project experience

Web-Portofolio – <https://github.com/charlospurba/Web-Portofolio>

April 2024

Website Developer

This class thoroughly discusses the basic of HTML anda CSS as the three foundations of website creation.

- Introduction to HTML: Basic structure of HTML documents and tools for building website pages.
- Deepening HTML: Application of HTML in building web page structures, including various HTML elements and techniques for organizing content.
- Introduction to CSS: Tools for enhancing the appearance of website pages, including CSS rules and code writing.
- Deepening CSS: Advanced CSS techniques for styling fonts, colors, shadows, positioning, and layout.
- Responsive Layout with Flexbox: Layout techniques using Flexbox for creating responsive designs.
- Conclusion: Implementation of learned techniques in creating a simple website project.

QUICLIB (Java GUI) – <https://github.com/charlospurba/QUICLIB>

Nov 2023 - Des 2023

Fullstack Developer

This Application is the final Object Oriented Programming Project at Institut Teknologi Del

- 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.
- This application is designed with a Java GUI using NetBeans, and a connection to the database system using SQLyog.
- This application is easy to use and helps students create book lists.

Create Database and Table with PostgreSQL - <https://github.com/charlospurba/E-commerce>

Okt 2023 - Des 2023

Database Developer

This is a final project Database

- The final project for the E-Commerce System Database course
- The database is designed using MySql, with documents complete with ERD, CDM, PDM, and other explanations.

Certifications

Dicoding

Material studied:

- Introduction to HTML: Basic structure of HTML documents and tools for building website pages.
- Deepening HTML: Application of HTML in building web page structures, including various HTML elements and techniques for organizing content.
- Introduction to CSS: Tools for enhancing the appearance of website pages, including CSS rules and code writing.
- Deepening CSS: Advanced CSS techniques for styling fonts, colors, shadows, positioning, and layout.
- Responsive Layout with Flexbox: Layout techniques using Flexbox for creating responsive designs.
- Conclusion: Implementation of learned techniques in creating a simple website project.

FREECLASS : DATA SCIENCE FUNDAMENTALS - FREECLASS

April 2024

DQLab

Material studied:

- Python Fundamental for Data Science
- R Fundamental for Data Science
- Fundamental SQL Using SELECT Statement

Python Fundamental for Data Science - FREECLASS

April 2024

DQLab

Material studied:

- What's Python
- Struktur Kontrol: Percabangan Keputusan
- Operator Matematika dan Pembanding
- Perulangan
- Function
- Modul dan Package
- Membaca dari File
- Grafik Dasar dengan Matplotlib

R Fundamental for Data Science - FREECLASS

April 2024

DQLab

Material studied:

- Let's Get Started with R
- Vector, List, and Data Frame
- Chart and Graphic

Fundamental SQL Using SELECT Statement - FREECLASS

April 2024

DQLab

Material studied:

- Structured Query Language
- Sistem Database Relasional
- Penggunaan Perintah SELECT... FROM...
- Prefix dan Alias
- Menggunakan Filter
- Mini Project

Java Programming - Bootcamp

Okt 2023

Udemy

- Learn to master Java Programming from Beginner to Professional, with Hands-on practical exercises and more

Interest & others

 **Interest** Software Engineer, System Analyst, QA Engineer.

 **Skills:** Python, R, HTML, CSS, C, Javascript, ReactJS, MySQL, Laravel, PHP, Communication, Visual Studio Code, Figma, Microsoft Word, Microsoft PowerPoint, Collaboration, Project Management, Teamwork, Team Leadership, and Writers.