TIMOTHY NICO

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I'm Timothy Nico, a third-year student at Petra Christian University, specializing in Artificial Intelligence (AI) and Web Development. My skill set includes Python, Java, and various web development languages like HTML, CSS, JavaScript, PHP, and SQL. I am also familiar with several web frameworks, including Bootstrap, Tailwind, and Laravel. With my skills and experience, I am actively seeking job, internship, and other opportunities.

# Education Level

**National Taiwan University - Taipei, Taiwan** Aug 2024 – Dec 2024

*Visiting Student, 4.23/4.30*

 **Achievement:** IISMA Awardee 2024 at NTU Taiwan

**Universitas Kristen Petra - Surabaya, Indonesia** Aug 2022 - Present

*Bachelor of Informatics, 3.95/4.00*

 **Achievement:** The Top 10% Freshman of 2022 With Outstanding Academic Achievement

 **Activities:** IT OpenHouse 2024, IT PEMIRA 2024, Material Division BLC 2024, Activity Division BEACON 2023, PERAN Division WGG 2023, Class Booth Coordinator Pekan Aplikasi Kreatif Pancasila 2023

 **Relevant courses**: Artificial Intelligence, Deep Learning, IT Project Management, Web Technologies, Database, Programming

# Internship Experience

**Information, Communication, and Technology Intern** Jan 2025 – Feb 2025

*GMS Church*

 Integrated Google Gemini API and Text Embedding API to implement an AI chatbot capable of answering questions accurately using Retrieval-Augmented Generation (RAG) based on a knowledge database.

 Developed a AI chatbot’s knowledge database system using Laravel, React, and Role Based Access Control for 200+ QnA pair.

 Managed Cekat.ai knowledge database and profiling for a chatbot to answer questions, send related pdf, and transferring to human agent .

# Skills

 **Programming-related**: Python, TensorFlow, HTML, CSS, JavaScript, PHP, Laravel, Bootstrap, Tailwind, SQL

 **Soft Skills**: Communication, time management, decision making, team collaboration, critical thinking

 **Additional skills**: Excel, Word, Canva, Medibang Paint, Photography, Videography

 **Languages**: Indonesian, English (DET 140/160, Petra EPT 643), Chinese (NTU General Chinese Course (I), UB Elementary Chinese)

# Projects

**Project Manager for GYB Church Information System Website** Feb 2025 – Present

*Project management, Laravel*

 Translated client needs into clear technical tasks for the development team, ensuring smooth communication between client and developers.

 Developed user and admin websites for information and content management using Laravel and also integrated the user page with Instagram Graph API for automatic feeds display.

**Dog Breed Detection using YOLOv8** Apr 2025

*Object detection, computer vision*

 Developed a computer vision project that performs dog breed detection using YOLOv8, capable of identifying multiple dogs in a single image. The model was trained to classify 58 different dog breeds and achieved an accuracy of 83%.

**Rock, Paper, Scissors Image Classification** Aug 2024

*Neural Network*

 Implemented neural network model using Tensorflow to classify rock, paper, and scissors images from user's input with more than 90% accuracy.

**PratamaHub** Apr 2024 – Jun 2024

*UI Design*

 Created a prototype of an application using Figma..

 Designed the prototype to include features that address and solve the community's problems, such as online complaints, news, and monthly contribution payments in both user's side and admin's side.

**Beasiswaku** Feb 2024 – Jun 2024

*System Documentation, back-end*

 Created project's documentations, including: use case diagrams, activity diagrams, state diagrams, sequence diagrams.  Developed CRUD operations for interacting with the database.

 Designed and created the user interface for several pages within the website using Figma.

**Swarm Intelligence for Optimizing Goods Delivery Schedule** Feb 2024 – Jun 2024

*Artificial Intelligence*

 Developed a solution to optimize the scheduling of cargo deliveries for a logistics company.

 Applied swarm intelligence optimization methods, including Ant Colony Optimization (ACO) and Particle Swarm Optimization

… (PSO), to address the problem.

# Organizational / Committee Experience

**OpenHouse 2024** Jul 2024 – Aug 2024

*IT Division*

OpenHouse is an annual event organized by the Student Executive Board at Petra Christian University to showcase studentextracurricular activities and organizations.

 Developed websites for student extracurricular activities registration and payment using Laravel and Tailwind CSS for 1300+ users.

 Collaborated with teammates to develop the website using GitHub.

**Pemilu Raya (PEMIRA) 2024** Jan 2024 - Jun 2024

*IT Division*

Pemilu Raya (Pemira) is an annual event held by Petra Christian University as a platform to conduct elections for various leadership positions within the university, such as the Student Executive Board (BEM), Student Associations (HIMA), and other similar organizations.

 Developed websites for registration, voting, quick count for the chairmen of Student Executive Board, Student Activity Unit and Student Association (35 students) in my university using HTML, CSS, Javascript, PHP, and SQL.

 Maintained 800+ voting data and other document data using SQL

**Pekan Aplikasi Kreatif Pancasila 2023** Apr 2023

*Class Booth Coordinator*

 Made the booth concept, including the design and decorations of the booth using Canva.  Made an educational board game about Kalimantan.

 Managed the budget, equipment, schedule during the event using Excel

# Honors & Awards

 **Indonesian International Student Mobility Awards (IISMA) Awardee 2024 at National Taiwan University** (2024)

 **The Freshman of 2022 With Outstanding Academic Achievement** (2023)

 **3rd Winner Reverse Comic Strip Competition** (2020)

# Certifications

 **Belajar Machine Learning Untuk Pemula** by Dicoding Indonesia (Aug 2024)

 **Elementary Chinese** by Universitas Brawijaya (Jun 2024)  **Red Hat System Administration I** by Red Hat (Mar 2024)  **Intro to Data Analytics** by RevoU (Jan 2024)

# Volunteering

**GMS Church** Aug 23 - Present

*Live Production*

 Recorded the weekly services and streaming for Indonesian, English, Chinese, and Adjusted camera and other technical devices,  including ISO and White Balance to ensure the best quality of images.

**Scratch Your Potential** Apr 23

*Module Coordinator*

 Introduced 84 elementary school students to programming through Scratch.  Created instructional modules for the programming material.

 Designed the modules to be engaging and easily understandable for the students.