

Panca Wiguna Sitanggang

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Summary

I recently graduated in Computer Engineering from the Syiah Kuala Universitas and have a strong interest in software development and machine learning. During my studies, I gained hands-on experience working on various applications and websites, and I also joined the Bangkit Academy program, which gave me a deeper insight into machine learning. I enjoy learning new technologies, adapt quickly to different situations, and feel comfortable working both on my own and together with a team.

Education

Syiah Kuala University

Aug 2021 – Jul 2025

Bachelor of Computer Engineering

- GPA: 3.47/4.00
- Bachelor's Thesis: "Implementation of Edge AI for Melanoma Classification Using CLAHE and CNN-Based Deep Learning on NVIDIA Jetson"
- Concentration in Multimedia Technology, with a strong interest in Artificial Intelligence, particularly in machine learning and deep learning.

Experience

Syiah Kuala University

Banda Aceh, Indonesia

Programming I Laboratory Assistant

Sept 2023 – Dec 2023

- Assisted lecturers in delivering fundamental programming materials using Scratch and Python to undergraduate students.
- Supported the evaluation process by grading assignments, quizzes, and programming lab exams.
- The students were evaluated and guided during lab sessions to enhance their understanding of the materials provided.

Syiah Kuala University

Banda Aceh, Indonesia

Programming II Laboratory Assistant

Jan 2024 – Jun 2024

- Assisted lecturers in teaching advanced programming concepts, including Object-Oriented Programming (OOP), modules and packages, database management with SQLite, and GUI development using Tkinter.
- Supported the evaluation process by grading assignments, quizzes, and practical exams on topics such as Flask, web scraping, data science with NumPy, and machine learning with Scikit-Learn.
- Guided and mentored students during lab sessions and final project development, helping them implement computer vision with OpenCV and integrate multiple technologies into practical applications.

Bangkit Academy By Google, GoTo, Traveloka

Banda Aceh, Indonesia

Machine Learning Learning Path

Aug 2023 – Jan 2024

- Completed intensive training in the fundamentals of machine learning, Python programming, data analysis, and applied mathematics for machine learning through platforms such as Dicoding and Coursera.
- Improved soft skills including communication, time management, and problem solving through workshops, English training, and collaborative sessions.
- Worked closely with a diverse team on a capstone project, applying machine learning techniques to address real-world challenges and presenting the results to mentors and peers.

Pengadilan Negeri Banda Aceh

Banda Aceh, Indonesia

Front-End Development Intern

Jul 2024 – Aug 2024

- Developed the front-end interface of a web-based reporting system using Laravel, supporting internal supervision and data submission through a responsive and user-friendly design for multiple user roles.

- Collaborated with the team to implement key features such as report upload/download, report history, status tracking, and automated reminders, improving efficiency and accuracy in report management.

Computer Vision Lab - Syiah Kuala University

Banda Aceh, Indonesia

Laboratory Assistant and Website Administrator

Jan 2025 – Jun 2025

- Assisted students in applying computer vision concepts such as image enhancement (CLAHE), filtering, edge detection, and object/face detection using OpenCV.
- Guided students to write and understand Python code based on provided materials to strengthen their programming skills.
- Managed and updated the official Computer Vision Lab website (<https://comvis.mystrikingly.com>) to ensure that the information, content, and resources were accessible and up to date.

E-Learning - MySkill

Banda Aceh, Indonesia

Website and Apps Development Learning Path

Sept 2025

- Completed fundamental web development modules covering front-end, back-end, API, cloud, and responsive design.
- Gained practical skills in HTML, CSS, and JavaScript, including API integration and IDE usage.
- Acquired insights into career pathways and best practices in professional web development.

Projects

Web Portofolio

github.com/panca03/ 

- A modern and responsive personal portfolio website built with Next.js, Vercel, Tailwind CSS, and Motion to showcase about me, projects, experience, and contact information. Features dynamic routing and dark mode for an enhanced user experience.
- Tools used: Next.js, Tailwind CSS, Motion, Vercel

Skill

Technical Skill

- **Programming Languages:** Python, Dart, PHP, JavaScript
- **Web Technologies:** HTML, CSS, Tailwind CSS, Bootstrap, Laravel, Next.js, React.js
- **Database Systems:** MySQL, SQLite, Firebase
- **AI & Machine Learning:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Jupyter Notebook, Google Colab
- **DevOps & Version Control:** Git, GitHub
- **Other Tools & Technologies:** XAMPP, VS Code, Figma, Postman

Soft Skill

- Problem Solving, Teamwork, Communication, Time Management, Continuous Learning