

FARREL SYACH ZAHRAN

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SUMMARY

I am a graduate of Computer Science with experience in frontend and backend web development. I am skilled in building responsive user interfaces, developing scalable backend systems, and working in collaborative team environments. I acquired these skills through internships and various online courses I have taken. I am enthusiastic about continuing to apply them in the professional world.

EDUCATION

**MERCU BUANA UNIVERSITY**  
Graduate of Computer Science | GPA: 3.69  
*Relevant coursework:* Software Engineering, Web Development, Database Systems, Data Structures & Algorithms, *Data Science*.

- Lecturer research program:**  
Develop an IoT tool to breed Black Soldier Fly (BSF) in the Bogor Safari Park.
- Thesis title:**  
Detection of fruit and vegetable damage with digital images using CNN algorithm.

Jakarta, Indonesia  
2020 - 2024

WORKSHOP EXPERIENCE

**BANGKIT ACADEMY – STUDI INDEPENDENT KAMPUS MERDEKA**  
*Machine Learning Engineer*

- Successfully completed the Bangkit Academy program, specializing in machine learning engineering.
- Facilitated weekly expert sessions, contributing to the enhancement of team knowledge and ensuring alignment with industry best practices.
- Collaborated closely with teams in machine learning, cloud computing, and mobile development to analyze and define project requirements, resulting in the successful delivery of a fully functional, scalable design solution.
- Developed and implemented a high-performance product recommendation system using TensorFlow, increasing recommendation accuracy to 90%, which directly contributed to the success of the project.
- Earned a machine learning specialization certification from Coursera, further solidifying expertise in data modeling, neural networks, and AI applications.

Feb 2023 – July 2023

EXPERIENCE

**CODERO EDUCATION – PART TIME**  
*Teacher IT*

- Responsible for teaching foundational coding and robotics to young learners aged 4 to 6, helping them develop early problem-solving and computational thinking skills.
- Delivered lessons both online and offline, adapting teaching methods to suit the different learning environments and ensuring students remain engaged and motivated regardless of the medium.
- Created detailed student progress reports, assessing their development in coding and robotics.

Oct 2023 – March 2024

**PT. PINTAR SOLUSI BAROKAH – INTERNSHIP**  
*Frontend Developer*

- Collaborated with the design and development teams to translate UI/UX designs into responsive, user-friendly web interfaces using HTML, CSS, JavaScript and Mobile using React Native.

Jul 2024 – May 2025

- Developed and maintained reusable code libraries to enhance application efficiency and maintainability.
- Worked with RESTful APIs to integrate front-end components with back-end services.
- Participated in team meetings to provide input on project, progress updates, and ect.

ORGANIZATION ACTIVITIES

BEM FAKULTAS ILMU KOMPUTER

Oct 2022 – June 2023

Head of Reaserch dan Technology Department

- Successfully developed and launched the official BEM website using HTML, CSS, and JavaScript.
- Creating strategic work programs for BEM and the Research and Technology Department.
- Ensured the successful execution of key BEM initiatives, contributing to the overall growth and effectiveness of the organization's activities and outreach efforts.
- Produced and managed engaging, IT-related content for Instagram, leading to a 40% increase in follower engagement and driving awareness of BEM's programs among students

CERTIFICATION

- |  |                |
|--|----------------|
| • Junior Web Developer Certificate of Competence – <b>BNSP</b> . | February, 2024 |
| • Google Data Analytics – <b>Coursera</b> .                      | March, 2023    |
| • Specializing in Machine Learning – <b>Bangkit Academy</b>      | July, 2023     |
| • Machine Learning – <b>Coursera</b>                             | April, 2023    |

SKILLS

- **Programming Language:** Python , C++, HTML, CSS, Javascript, PHP, Typescript, Golang
- **Frameworks:** React.js, Next.js, Node.js, Express.js, CodeIgniter, Laravel, React Native, FastAPI, Django
- **Database:** MySQL, PostgreSQL, MongoDB.
- **Soft skill:** Communication, Problem Solving, Collaboration, Adaptability, Critical Thinking.
- **Language:** English(Beginner), Indonesian (Native)
- **Other Skills:** Redis, Kafka, Docker, Kubernetes, Github, Postman, RESTful APIs

PROJECTS

- **Clone Netflix Website (Online Course):** React.js, Node.js, Express.js, Tailwind, MongoDB.
- **Backend API with Golang (Online Course):** Kalkulator Suhu, API Situs Forum, API Katalog Musik, API E-Commerce yang Scalable, API Sistem E-Wallet berbasis Microservice, API Sistem Messenger.
- **Website Aplikasi Event (Online Course):** React.js, Next.js, , Express.js,Tailwind, Midtrans(payment Gateway), MongoDB.
- **Task Management Application (Online Course):** FastAPI, React.JS, MongoDB, Redis, WebSocket.
- **Bangun Web Apps dengan Django dan LLMs (Online Course)**