

SYIFA KAFFA BILLAH

08990695297 • syifa.kaffa@ui.ac.id • LinkedIn • Portfolio

Syifa is a final year Computer Science student at the Faculty of Computer Science, University of Indonesia. She is a quick learner who easily adapts to new environments. Currently, Syifa focuses on full-stack web development and has completed many projects during her studies. She hopes to become a skilled Software Engineer and make a positive impact through her work.

EDUCATION

University of Indonesia, Faculty of Computer Science

Bachelor in Computer Science, GPA: 3.68 / 4.00

Relevant Coursework: Software Engineering, Database Systems, Machine Learning

**Depok
2022 - Present**

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, JavaScript, CSS, HTML, TypeScript

Database: PostgreSQL, Supabase

Framework: Django, Spring Boot, Next.js, Flutter, Vue

Tools: Git/GitHub/GitLab, Visual Studio Code, SonarCloud, Postman, Microsoft Office

Design: Figma, Draw.io

EXPERIENCE

Pusat Administrasi UI, Frontend Engineer Intern

February 2025 - June 2025

- Developed the frontend systems for the graduation and parking platforms using Vue.js and TypeScript.
- Built core features such as registration flows, role-based access control, parking subscriptions, and dynamic reporting.
- Integrated frontend with RESTful APIs and implemented route protection using role-based access middleware
- Designed UI mockups and user flows using Figma to align with responsive and component-based development.

PROJECT EXPERIENCE

SOFTWARE DEVELOPMENT PROJECTS

Wisuda UI, Frontend Engineer

February 2025 - June 2024

- Designed UI mockups for the graduation system using Figma.
- Developed the frontend using Vue.js and TypeScript, including features like registration forms, admin dashboards, and dynamic reports.
- Implemented role-based access control using meta routes and integrated with Keycloak.
- Integrated frontend with REST APIs and deployed the system to the DSTI development server.

Parkir UI, Frontend Engineer

February 2025 - June 2024

- Built the frontend system using Vue.js and TypeScript with personalized interfaces for users, admins, and verifiers.
- Developed features such as vehicle management, parking subscription, role-based navigation, and master data reporting.
- Implemented protected routing and role validation through page meta configuration integrated with Keycloak.
- Collaborated with backend teams for REST API integration and supported deployment to the DSTI development server.

Second Treasure, Fullstack Engineer

March 2024 - May 2024

- Responsible for the CRUD Sell Feature and Order Management, handling end-to-end development as a Fullstack Engineer.
- Utilized Next.js for frontend development and Spring Boot for backend implementation.
- Deployed the platform on Google Cloud Platform with SonarCloud integrated into CI/CD pipelines via GitHub for automated deployment, bug detection, code smell analysis, code security checks, and test coverage monitoring.

IAST Connect, Backend and Frontend Engineer

June 2024 - July 2024

- Led backend development, including organizing technical documentation and building the backend system using

Django.

- Developed CRUD functionality for admin content management and implemented the home page interface using Next.js and Tailwind CSS.
- Played a key role in both backend and frontend engineering to deliver a seamless and efficient platform.

ReadHub Web, *Backend and Frontend Engineer*

October 2023

- Took ownership of key features, including the Book Categories Page (for browsing and searching books) and Favorite Page (allowing users to save and manage favorite books).
- Utilized Django for backend logic and database integration, and Bootstrap CSS for responsive frontend design.

ReadHub Mobile, *Backend and Frontend Engineer*

November 2023 - December 2023

- Built a mobile version of ReadHub with an optimized user interface for mobile accessibility.
- Implemented features such as category filtering, favorites management, and seamless navigation using Flutter and Dart.

Marmut Music, *Backend and Frontend Engineer*

March 2024 - May 2024

- Modeled the system architecture using ERD and class diagrams, and implemented the backend with Django utilizing SQL for efficient data management.
- Created a responsive and interactive frontend using JavaScript and HTML to enhance user experience.

DATA SCIENCE PROJECTS

Lodging Reservation Analytics, *Data Scientist*

March 2024 - June 2024

- Collaborated in 3-member data science team to deliver comprehensive analytics solution, providing actionable business insights that improved hospitality industry decision-making.
- Developed ML classification model (F1: 0.84) for booking cancellation prediction and regression model for pricing optimization using 8,954+ reservation records.
- Implemented customer segmentation through clustering analysis to identify distinct booking patterns and enable targeted business strategies.
- **Technologies:** Python, pandas, numpy, matplotlib, seaborn, sklearn, Google Colab

ADDITIONAL EXPERIENCE

TEACHING EXPERIENCE

Faculty of Computer Science, University of Indonesia

August 2023 - June 2025

Teaching Assistant (Discrete Mathematics 2, Calculus 1, and Numerical Analysis), Contract Employee

- Assisted 10+ students per semester in understanding course content and solving complex problems.
- Created challenging problem sets for homework and quizzes, ensuring a high level of analytical thinking.
- Supervised quizzes, facilitated class discussions, recorded participation points, and managed student administrative records efficiently.

ORGANIZATIONAL EXPERIENCE

Forum Ukhuwah dan Kajian Islam Fasilkom UI, *Internal Control Staf*

January 2025 - Present

- Coordinated bidding process (t and proper test) for Executive Board positions and SIWAK NG committee, ensuring transparent candidate selection.
- Managed stakeholder communication between bidders and panelists while serving as MC and timekeeper during evaluation sessions.
- Ensured objective and orderly selection process through systematic procedural oversight.

Forum Ukhuwah dan Kajian Islam Fasilkom UI, *Human Resource Development Staff*

August 2023 - January 2024

- Executed human resource development programs to enhance organizational capacity and member engagement.
- Led "Remember Your Friend" (RYF) initiative, improving cross-functional collaboration and member networking.
- Served as liaison between HR Development and IT Force division, streamlining interdepartmental communication and project coordination.

SIWAK-NG, *Secretary*

Depok, 2023

- Prepared proposals, activity reports, and official correspondence to support organizational events.