

# SYIFA KAFFA BILLAH

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Syifa is a final-year Computer Science student at the University of Indonesia with a strong interest in full-stack development and data science. She has experience delivering real-world applications for institutional clients and aims to build impactful solutions as a Software Engineer.

## 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

### 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

### 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.

<b>Second Treasure, Fullstack Engineer</b>	<b>March 2024 - May 2024</b>
<ul style="list-style-type: none"> <li>Responsible for the CRUD Sell Feature and Order Management, handling end-to-end development as a Fullstack Engineer.</li> <li>Utilized Next.js for frontend development and Spring Boot for backend implementation.</li> <li>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.</li> </ul>	
<b>IAST Connect, Backend and Frontend Engineer</b>	<b>June 2024 - July 2024</b>
<ul style="list-style-type: none"> <li>Led backend development, including organizing technical documentation and building the backend system using Django.</li> <li>Developed CRUD functionality for admin content management and implemented the home page interface using Next.js and Tailwind CSS.</li> <li>Played a key role in both backend and frontend engineering to deliver a seamless and efficient platform.</li> </ul>	
<b>ReadHub Web, Backend and Frontend Engineer</b>	<b>October 2023</b>
<ul style="list-style-type: none"> <li>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).</li> <li>Utilized Django for backend logic and database integration, and Bootstrap CSS for responsive frontend design.</li> </ul>	
<b>ReadHub Mobile, Backend and Frontend Engineer</b>	<b>November 2023 - December 2023</b>
<ul style="list-style-type: none"> <li>Built a mobile version of ReadHub with an optimized user interface for mobile accessibility.</li> <li>Implemented features such as category filtering, favorites management, and seamless navigation using Flutter and Dart.</li> </ul>	
<b>Marmut Music, Backend and Frontend Engineer</b>	<b>March 2024 - May 2024</b>
<ul style="list-style-type: none"> <li>Modeled the system architecture using ERD and class diagrams, and implemented the backend with Django utilizing SQL for efficient data management.</li> <li>Created a responsive and interactive frontend using JavaScript and HTML to enhance user experience.</li> </ul>	

Additional Experience	
Teaching Experience	
<b>Faculty of Computer Science, University of Indonesia</b>	<b>August 2023 - June 2025</b>
<i>Teaching Assistant (Discrete Mathematics 2, Calculus 1, and Numerical Analysis), Contract Employee</i>	
<ul style="list-style-type: none"> <li>Assisted 10+ students per semester in understanding course content and solving complex problems.</li> <li>Created challenging problem sets for homework and quizzes, ensuring a high level of analytical thinking.</li> <li>Supervised quizzes, facilitated class discussions, recorded participation points, and managed student administrative records efficiently.</li> </ul>	
Organizational Experience	
<b>Forum Ukhuwah dan Kajian Islam Fasilkom UI, Internal Control Staf</b>	<b>January 2025 - Present</b>
<ul style="list-style-type: none"> <li>Coordinated bidding process (fit and proper test) for Executive Board positions and SIWAK NG committee, ensuring transparent candidate selection.</li> <li>Managed stakeholder communication between bidders and panelists while serving as MC and timekeeper during evaluation sessions.</li> <li>Ensured objective and orderly selection process through systematic procedural oversight.</li> </ul>	
<b>Forum Ukhuwah dan Kajian Islam Fasilkom UI, Human Resource Development Staff</b>	<b>August 2023 - January 2024</b>
<ul style="list-style-type: none"> <li>Executed human resource development programs to enhance organizational capacity and member engagement.</li> <li>Led "Remember Your Friend" (RYF) initiative, improving cross-functional collaboration and member networking.</li> <li>Served as liaison between HR Development and QILC division, streamlining interdepartmental communication and project coordination.</li> </ul>	
<b>SIWAK-NG, Secretary</b>	<b>Depok, 2023</b>
<ul style="list-style-type: none"> <li>Prepared proposals, activity reports, and official correspondence to support organizational events.</li> </ul>	