MOCHAMAD SHANDY FIRDAUS

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North Jakarta, Indonesia

A highly motivated and results-driven recent graduate from the Faculty of Information Technology, majoring in Informatics Engineering, who completed the degree in 3.5 years with Cumlaude honors. I possess a strong passion for technology, innovation, and continuous personal development.

During my academic tenure, I actively participated in numerous web development and software engineering projects, building a strong foundation in programming, system analysis, and the development of impactful digital solutions.

Equipped with excellent analytical and critical thinking skills, I am capable of adapting to both independent and team-oriented work environments. My effective communication skills and commitment to high standards allow me to contribute efficiently within multidisciplinary teams.

I am eager to advance my expertise, contribute meaningfully to the industry, and grow alongside an organization that values innovation, creativity, and continuous improvement.

Work Experiences

Model Prototipe Intervensi Kesehatan Mental Berbasis Web untuk Remaja Dewasa di Indonesia dengan Pendekatan internet-based Cognitive Behavioral Therapy (i-CBT) - **Universitas YARSI - Psikologi**

Aug 2024 - Jan 2025

Fullstack Web Developer

In this project, I developed a prototype model of a web-based mental health intervention platform specifically designed to provide accessible mental health support to young adults in Indonesia. The platform leverages Cognitive Behavioral Therapy (CBT) techniques adapted into an online format, known as internet-based CBT (i-CBT). The goal was to break down barriers to mental health support, such as stigma and limited access to professional services, by providing an easy-to-use and interactive platform that delivers education, therapeutic resources, and practical tools.

- Platform Design & Development: Designed and developed the front-end interface using Bootstrap for responsive design and HTML/CSS/JavaScript for an engaging and user-friendly experience.
- Backend Development with Flask: Developed the back-end of the platform using Python (Flask) to handle user authentication, data processing, and dynamic content delivery. Integrated secure user sessions and personalized experience through Flask's routing and middleware.
- Database Management with MongoDB: Utilized MongoDB for efficient storage and retrieval of user data, session logs, and therapy content. Integrated CRUD operations for user profiles and session tracking.
- Integration of CBT Techniques: Collaborated with a psychology lecturer to incorporate Cognitive Behavioral Therapy (CBT) techniques into the platform, ensuring that the therapeutic content aligns with evidence-based practices.
- User Testing & Feedback: Conducted user testing to gather feedback on the platform's usability and effectiveness, ensuring continuous improvement in both design and functionality.
- Prototype Delivered on Time: Successfully delivered a functional web-based prototype, integrating i-CBT techniques into a platform with user-friendly features.
- Collaboration with Psychology Expert: Worked closely with a psychology lecturer to translate therapeutic techniques into a digital format, contributing to a practical solution for mental health support.
- Innovative Use of Web Technologies: Leveraged Flask and MongoDB to create a robust and scalable back-end architecture, ensuring seamless data management and interaction between the platform and users.
- Effective Mental Health Intervention: The platform provided young adults in Indonesia with a meaningful and accessible mental health resource, addressing challenges such as stigma and limited access to professional services.
- Positive Impact on Mental Health Awareness: Received positive feedback from initial users, with many highlighting the platform's ability to engage and educate users on mental well-being through interactive and accessible content.
- Continuous Improvement: Based on feedback, iteratively improved the platform's design and backend functionalities to ensure an optimal user experience.

MSIB Studi Independent by Educourse PT Maleo Edukasi Teknologi

Jan 2024 - Jun 2024

Platform And Web Developer (Specialist Education Platform)

Studying as an independent full-stack web developer has been an exhilarating and rewarding journey, allowing me to continuously learn and grow in the field of web development. Throughout this journey, I've had the opportunity to work on various projects, gradually expanding my skills from front-end development to back-end solutions.

- Front-End Development: Mastered the fundamentals of HTML and CSS, which laid the groundwork for creating structured and visually appealing websites. I utilized Bootstrap to design responsive, mobile-first layouts that adapt to a variety of screen sizes and devices.
- Interactive User Experience: With the power of JavaScript, I enhanced user experience by making websites dynamic and interactive. The

addition of jQuery and Ajax allowed me to create seamless, real-time data interactions, removing the need for page reloads and improving fluidity in the user interface.

- Backend Development: I focused on backend development using Python and Django, building robust server-side applications and implementing features like user authentication, data processing, and dynamic content delivery.
- Database Management: Integrated and managed databases using Django's ORM (Object-Relational Mapping) to efficiently store and retrieve user data, ensuring smooth interactions between the front-end and back-end.
- Collaboration and Problem Solving: Collaborated with other developers and stakeholders, addressing technical challenges and ensuring that the final product met both user needs and business goals.
- Continuous Learning and Improvement: Continuously refined my skills by exploring new frameworks, technologies, and best practices, ensuring the websites I built were optimized, maintainable, and scalable.
- Mastering Full-Stack Development: Gained hands-on experience in both front-end and back-end development, utilizing HTML, CSS, and JavaScript for the user interface, and Python (Django) for the server-side, building comprehensive web applications.
- Responsive Web Design: Successfully built responsive and mobile-friendly websites using Bootstrap, ensuring that applications function smoothly across all devices.
- Enhanced User Interactivity: Leveraged JavaScript, jQuery, and Ajax to create dynamic web pages that provide real-time, interactive experiences without the need for page reloads, enhancing usability and engagement.
- Scalable Back-End Solutions: Developed a variety of back-end systems using Python (Django), including user authentication, session management, and data processing, resulting in high-performing, secure, and maintainable applications.
- Problem-Solving and Collaboration: Successfully navigated technical challenges and worked in collaborative environments to meet project goals, while maintaining focus on best practices and user-centered design.
- Commitment to Growth: Continuously sought opportunities to expand my skill set through self-learning and application, staying updated with emerging trends and technologies in the web development space.

YARSI University - Artificial Intelligence   Sep 2023 - Jan 2024
Screening Cervical cancer unit technology
Creating the application of AI -based cervical cancer screening tools through the web which is used for patients, pathology doctors and hospitals, providing screening results without intermediaries from pathology

Education Level

Universitas YARSI ✓ **- Jakarta, Indonesia**   Aug 2021 - Apr 2025
Bachelor of Computer, 3.61/4.00

Organisational Experience

Karang Taruna   Aug 2019 - Present
Member
I actively participated in organizing social services around the environment, where we held a variety of community activities to engage local residents. One of the main events was the 17th August competition, which was celebrated in the residential area to honor Indonesia's Independence Day. This event aimed to foster community spirit and raise awareness about the importance of environmental preservation. By involving residents in fun and educational competitions, we were able to promote a sense of togetherness while also encouraging them to take an active role in maintaining a cleaner and greener environment.

Projects, Skills, and Certificate

- **Projects** (2024): (Instagram Unfollowers Checker Tool) : Developed a tool that identifies Instagram accounts that do not follow back, using official data exported from Meta (Instagram). The tool processes JSON or HTML data containing the user's followers and following lists, then analyzes and compares the datasets to generate a list of accounts that do not follow back. This feature provides users with clear insight into their account engagement, helping them manage their connections more effectively.
- **Projects** (2023): (Pemrograman Berbasis Platform) : Create an application to share home decoration ideas UI/UX
- **Projects** (2022): (Pemrograman Berorientasi Objek) : Making a Teka teki Game Application part of UI/UX
- **Soft Skills**: Effective Communication, Adaptabilty to Technology developments, Analytical Thinking, Teamwork and Collaboration, Persistence and Learning Enthusiasm, Problem-Solving
- **Hard Skills**: Programming and Coding, Full-Stack Web Development Branding Identity UI Design Prototyping Collaboration and Project Management Skills
- **Achievements** ✓ (2025): Graduation of the cumlaude predicate
- **Achievements** ✓ (2024): Successfully completed the STEM Endorsed Program, demonstrating foundational skills and knowledge in Science, Technology, Engineering, and Mathematics.
- **Achievements** ✓ (2023): CCNAv7: Introduction to Networks through the Cisco Networking Academy program
- **Achievements** ✓ (2022): Introduction to Cybersecurity through the Cisco Networking Academy program
- **Achievements** ✓ (2023): Participation in following the exhibition specialization track