ZAIN FAHRI

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Ambitious 7th-semester IT student eager to translate robust technical knowledge into tangible results and innovative solutions. Experienced in full-cycle web application development and equipped with solid programming and analytical capabilities. I consistently seek new learning opportunities and thrive in collaborative settings, utilizing effective communication to solve complex problems and drive project success.

Work Experiences

PT. AKTIFITAS ATMOSFIR - **South Jakarta, Indonesia**   Sep 2024

Administrative Support (Catering Team)

A premier professional catering and food logistics company specializing in managing high-volume, large-scale events, as demonstrated by their role as the official caterer for PON XXI.

- Logistics Coordination & Timeliness: Coordinated crucial logistics data with a field operational team of 15+ staff to ensure the smooth and timely distribution of food to event venues.
- High-Volume Documentation: Managed and executed the daily administrative needs and comprehensive documentation for the catering team during the large-scale PON XXI event.
- Data Accuracy & Reporting: Tracked and recorded high-volume food distribution data for hundreds of individuals (athletes, officials, and committees), contributing to the compilation of accurate daily consumption reports.
- Compliance Assurance: Ensured the completeness of all administrative and financial documents, achieving 100% compliance for internal record-keeping and external event requirements.

Setia Mitra Hospital - **South Jakarta, Indonesia**   Oct 2024 - Dec 2024

Front-End Development & Data Integrity Intern

A leading general hospital focused on patient care and the digitalization of medical administration systems.

- Front-End Development: Engineered and deployed critical internal web pages using HTML, CSS, and vanilla JavaScript, directly supporting the digitalization of hospital administrative functions.
- Data Integrity Assurance: Managed and executed high-volume data entry for patient records, medical inventory, and administrative information into the central database, ensuring a 99% accuracy rate.
- Quality Control & Validation: Implemented rigorous validation processes on all input data to uphold database integrity and ensure reliable information for administrative decision-making.

Education Level

Universitas Gunadarma - Depok, West Java

Bachelor, 3.65/4.00

- Completed intensive training covering Web Programming fundamentals, including Go Programming, control structures, and J2EE/Servlet technology.
- Gained foundational knowledge in enterprise-level frameworks, specifically the .NET Framework and C# Programming.

RESEARCH PROJECT

Project Title: IT Career Trend Prediction System Using the K-Nearest Neighbor (KNN) Algorithm
(Sistem Prediksi Tren Karier di Bidang IT Menggunakan Algoritma K-Nearest Neighbor (KNN))
Student: Zain Fahri
Institution: Gunadarma University, Faculty of Industrial Technology, Informatics Department
Year: 2025
Project Summary and Contribution
Developed and implemented a machine learning-based Career Assessment Platform designed to predict the optimal IT career path for Informatics graduates based on a multi-dimensional competency profile. The system processes user input from four specialized

assessments (Technical Skill, Soft Skill, Situational Judgment Test (SJT), and Personality) to generate personalized career recommendations.

Key Achievements & Technical Details

- **Machine Learning Model:** Applied K-Nearest Neighbor (KNN) for career classification, leveraging its effectiveness for non-linear, multi-label data classification.
- **Performance:** Achieved an overall accuracy of **73.33%** on the testing dataset.
- **Class Performance:** Best performance recorded on the *Project Manager* class (**F1-score: 0.86, Precision: 0.88**).
- **Data Preprocessing:** Implemented CRISP-DM methodology with key steps:
  - **Normalization:** StandardScaler (Z-score scaling) to ensure feature consistency and unbiased distance calculations.
  - **Data Split:** Stratified 80:20 split (1200 train / 300 test) to maintain balanced representation across 5 career classes.

Deployment and Usability

- **Technology Stack:** Built as an interactive web platform using **Streamlit (Python)**.
- **Model Integration:** Deployed with .joblib artifacts (KNN model, StandardScaler, LabelEncoder) for efficient real-time predictions.
- **User Experience:** Attained an average **System Usability Scale (SUS) score of 85**, rated *"Excellent"*, confirming high usability and user satisfaction.

Skills & Achievements

- **Hard Skills** ⬚ (2023): Fundamental Web Programming
- **Soft Skills**: Analytical Thinking, Problem-Solving, Teamwork & Collaboration, Effective Communication
- **Webinars Attended** ⬚ (2023): Threat and Trends on Cyber
- **Webinars Attended** ⬚ (2024): Outlook APBN 2024-2025 dan Update Reform DJP