ELSAM RAFI SAPUTRA

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Work Experience

SCHNAP – Australia's premier electrical wholesaler and supplies — Kingsgrove, Australia (Remote)
Software Engineer — *March 2025 - Now*

- Built and optimized automation product data pipeline (90K+ product) for increasing product success rate from 50% to >90%, reducing mean time to recovery, and reducing data ingestion time by >60%.
- Implemented and optimized product SEO guidelines and achieved SEO score from <70 to >85 and increased sales (paid transaction) >250% in current of 6 months before.
- Built and maintained AI agent that purpose for product enhancement, marketing, and internal tools using Gemini and Open AI.
- Stack: Golang (Gin), Python, Vue JS, Playwright, MySQL, AWS, CS Cart.

KAP TNN – Indonesia's registered public accounting firm — South Jakarta, Indonesia (Remote)
Fullstack Developer — *September 2024 – August 2025*

- Built entire company website using wordpress for custom job board, finance calculator, and landing page.
- Built internal tools (Datatrail website) for document management services and multi-tenant applications.
- Built automation tools using python, make.com, zapier, and n8n for decreasing cost and manual work by integrating 3rd Party API (Open AI, Deepseek, Azure, OCR PDF.co, etc), data scraping, and webhooks.
- Optimized company SEO and increased to be Top 10 (First page) ranks for the company keywords goal from under 100+ ranks.
- Stack: Next JS, FastAPI, MySQL, Azure, Make.com, Zapier, n8n, Wordpress.

School Tech Indonesia – Digital school management startup — Malang, Indonesia (Remote)
Frontend Developer — *August 2024 – December 2024*

- Developed Internpro a digital school management and internship board and implemented Ant Design UI components to create reusable, scalable, and optimized frontend website.
- Stack: React JS, Ant Design, Jest, Laravel, MySQL.

Betr Beta – Software agency — Anson Road, Singapore (Remote)
Fullstack Developer — *Juny 2024 – August 2024*

- Optimized performance of main website apps from fetching using Render-as-you-fetch pattern and Suspense to reduce significant load time and refactored using atomic design principles to create modular and reusable UI components by integrating Shadcn/ui.
- Created test case for new products page (Release Notes Manager) by using cypress cucumber.
- Stack: Next JS, Shadcn/ui, Cypress, Firebase.

Organizational Experience

Telkom University Education Movement – Social & Education — Bandung, Indonesia
Design and Publication Team — *October 2021 – August 2022*

- Designed social media themes, and Instagram feed templates, and organization programs/events.
- Participated in volunteering programs: "Mengajar: Road to Desa 2022" in Cimaung village, Extracurricular as an English teacher at SDN Cipagalo 3 for two months, and Aksi Peduli Desa FKB Universitas Telkom.

Menebarmanfaat.id – Social & Personal Development — Bandung, Indonesia (Remote)
Design and Motion Video Division — *November 2021 – March 2022*

- Designed daily feeds, short videos, other organization program designs.
- Participate in every work program activity in the online activities trends during the COVID-19 era.

Projects

StuntFree Stunting Prevention and Detection Apps – Bangkit Academy 2024
- Designed and set up cloud architecture on GCP by separated main services and machine learning servis using Google Cloud Run for fast deployment with docker container for Mobile Apps to prevent and detect stunting in Indonesia.
- Assisted mobile developer by designing and compiling the majority of the app's UI/UX.
- Provided approximately 25 datasets from various sources and scraping data for streamlining data preparation and model training.
- Built simple models using KNN and K-Means for classification environment quality dataset.
- Developed gRPC server to load and serve machine learning model and integrate it with main services and Vertex AI.

Growth Momentum (E-Learning Platform) – Final Project (ICADEIS 2025)
- Built e-learning platform apps using Next JS (Landing Page & Dashboard) and Flask for backend.
- Integrated machine learning models (recommendation system) using Google Collab and dataset from Kaggle (E-Learning) using K-Means Clustering by calculating Novelty and Diversity Metrics.

Teman Anti Judi Online – Microsoft Online Hackathon 2025 (elevAIte with Dicoding)
- Built website (PWA) for preventing and heal users who addicted to online gambling by using Azure Cloud.
- Developed AI personalized feature by using Azure AI Personalizer, Azure Open AI, and pre-trained models from hugging face.
- Developed AI chatbot by integrating Azure Open AI and Azure AI Content Safety.
- Developed negative sentiment media for online gambling by scraping from news media, blog media, and social media by using AI Content Safety and Azure Open AI.

Education & Achievements

Telkom University   Bandung, Indonesia
Bachelor of Informatics (GPA 3.77/4.00) – *Cumlaude*   *September 2021 – January 2025*
- Final Project's title "Evaluation of Diversity and Novelty of Recommendation System on Digital Learning Platform Based on User Usability and Satisfaction" Accepted at International Conference ICADEIS 2025.
- Programming Algorithm & Data Structures Practicum Assistant at Informatics Laboratory.
- Member of the Decoration Division at the INTERFEST 2023, Member of the Events Division at Hello World 2023, Member of the Events Division at PORSENIF 2022.

Bangkit Academy 2024 By Google, GoTo, Tokopedia, Traveloka   Jakarta, Indonesia (Remote)
Cloud Computing Cohort (A, 87/100)   *September 2024 – January 2025*
- Completed the Cloud Computing Path, including courses in cloud infrastructure, frontend and backend development, Google Cloud tools, and more.
- Completed 25+ Google Cloud Skills Boost, Dicoding, and Coursera courses and gained proficiency intools for deployment, security, and API hosting.

elevAIte with Dicoding (Microsoft Azure) 2025

Telkom University Endowment Fund Scholarship 2024

AWS Academy 2024 Backend Development Stage 2

Tanamduit Campus Ambassador 2022

Skills

Typescript, Python, Golang, PostgreSQL, MySQL, Firebase, MongoDB, Next JS, Vue JS, Express JS, gRPC, FastAPI, Flask, Wordpress, Cloud Computing, Problem Solving, Algorithms & Data Structures.