

YOGGA ADITYA CANDRA

Software Engineer

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SUMMARY

Software Engineer with 3 years of experience, specializing in the full-lifecycle development of the **e-budgeting module** for Universitas Terbuka financial planning and reporting. Evolving from this role to prototyping advanced AI solutions, with a strong focus on **security and cost-efficiency**. Possesses hands-on expertise in developing **Natural Language to SQL (NL-to-SQL)** functionality and implementing **RAG architectures** to create context aware, private models while **significantly optimizing expensive token consumption**. Proficient across the full stack with **React, Vue, Node.js (Express), and Python (FastAPI)**.

WORK EXPERIENCE

Universitas Terbuka

Intermediate Software Engineer (April 2024 – Present) <https://sippp.ut.ac.id>

- **Develops and maintains the core** E-Budgeting module (Fullstack) and the new E-Revenue module (Frontend) for the SIPPP system.
- **Analyzes complex business flows** from user requirements and translates them into functional system architecture.
- **Performs and creates end-to-end test documentation** (ITF, URF, UAT) to ensure software quality and reliability.
- Prototyping an AI analytics prototype to empower C-level users with direct data access through natural language, leveraging a RAG framework to optimize token costs and maintain data privacy. (AI / ML APIs)

Front End Web (June 2023 – April 2024)

- Transformed the university's financial planning by designing and implementing the Rakernas budgeting feature, slashing the manual planning workflow from multiple days to just 3 - 4 days.
- **Analyzed, designed, and built** the Monthly and Quarterly Money reporting module to enable all university units to track and measure program performance against the financial plans established during Rakernas.
- **Created Real-time Pivot Table Functionality**, Enabled users to effortlessly manipulate and export data to Excel, enhancing data analysis efficiency.

PT. Ide Nusantara Cipta

Junior Front End Web (August 2022 – Mar 2023) <https://bima.kemdiktisaintek.go.id>

- **Translated Figma designs into a pixel-perfect, fully responsive** public landing page, ensuring a consistent user experience across all devices, including mobile and tablets.
- **Developed and integrated key content modules** for the landing page, including a dynamic announcements section and a new blog interface.
- Developed supporting data menu that contains all information related to Higher Education (*University*)
- Developed the Approval menu Usulan Penelitian & Pengabdian

EDUCATION

UNIVERSITAS PAKUAN (2018 – 2023)

Bachelor's degree, Computer Science

- **Thesis Project:** Developed a web application to map Indonesian cocoa commodity potential using **K-Means Clustering**. The model analyzed agricultural and spatial data to cluster provinces, demonstrating early expertise in data analysis and machine learning.
- **Code Repository :** <https://bit.ly/clustering-cocoa>
- **Live Demo :** <https://inacocoacomodity.vercel.app/>

CERTIFICATION

- LLM-Based Tools and Gemini API Integration for Data Scientists, <https://bit.ly/hacktiv8-certificate-Ai>
- Build Design System with React JS & Storybook, <https://bit.ly/bwa-storybook>
- Microsoft Certified : Azure Ai Fundamentals, <https://bit.ly/ms-azure-ai-fundamental>
- HTML, CSS dan JavaScript : Beginner to Expert, <https://bit.ly/udemy-html-css-javascript>

SKILLS

- **Languages :** JavaScript, TypeScript, Python
- **FrontEnd :** React, Vue, Next, Nuxt, Tailwind, SASS, Semantic HTML, State Management
- **BackEnd :** Express, FastApi
- **AI / ML :** RAG, LangChain, LangFuse, Vector Database (Qdrant)
- **Tools :** Vite, Git, StoryBook, RTL & Jest, Jupyter Notebook