



ZAHIN UKASYAH

BACHELOR IN SOFTWARE ENGINEERING
@UNIVERSITI TEKNOLOGI MALAYSIA



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Maluri, Kuala Lumpur



Software Engineering student with a strong foundation in computer science, specializing in building intuitive and performant user interfaces with React, Next.js, and TypeScript. I combine my passion for clean, responsive design with strong problem-solving skills to create an engaging digital experiences.

SKILL

FULLSTACK DEVELOPMENT

- **Core Technologies:** HTML, CSS, JavaScript (JS), TypeScript (TS), Tailwind CSS, API integration.
- **Frameworks & Libraries:** React, Next.js, Node.js, Vite, ShadCN UI
- **Backend:** Supabase, Firebase
- **Frontend:** v0, Replit, Lovable, Bolt
- **Automation:** n8n, AI Agents (RAG)
- **Deployment & Hosting:** Vercel
- **IDE/ CLI:** Cursor AI, Warp, Gemini CLI

DEVOPS & TOOLS

- **Version Control:** Git, GitHub
- **Containerization & CI/CD:** Docker

DATA SCIENCE & MACHINE LEARNING

- **Core Languages & Libraries:** Python, pandas, NumPy, scikit-learn
- **Deep Learning & NLP:** TensorFlow, Keras, MLP, CNN, Logic Regression.
- **Data Acquisition:** Web Scraping with BeautifulSoup.
- **IDE/ CLI:** Jupyter Notebook.

UI/UX DESIGN & PROTOTYPING

- **Design & Wireframing:** Figma
- **Interactive Prototyping:** Framer, Principle, Webflow, Canva
- **User-Centric Methods:** User Journey Mapping, Workflow Optimization

ADDITIONAL EXPERIENCE

- **Familiar with:** C++, Java, Bootstrap

EXPERIENCE

TAILSNOTES | STARTUP FOUNDER & DEVELOPER (IN-DEV)

- Developed under HedgeTech. Full-stack AI application that converts uploaded files into structured notes and interactive quizzes to support better learning outcomes.
- Built using **React**, **Next.js**, and **Tailwind CSS** for a responsive user experience, with **Supabase** powering backend services and secure user authentication.
- Integrated **Gemini 1.5 Flash API** for content extraction and text generation, enabling real-time transformation of raw documents into study-ready material.

LINK SHORTENER SERVICE | OPEN-SOURCE ON GITHUB

- Developed a modern, full-stack link shortening application using **Next.js** with **React** and **TypeScript**, leveraging server-side rendering and static site generation for a high-performance, fast, and dynamic user experience.
- Implemented a scalable backend solution with **Supabase**, and built-in features for detailed analytics tracking.
- Utilized the **TinyURL API** to efficiently generate short, shareable links and built a comprehensive analytics dashboard to provide users with valuable insights.

AI-POWERED RESUME BUILDER | OPEN SOURCE ON GITHUB

- Engineered a dynamic and responsive resume builder utilizing the power of **Next.js**, **React**, and **TypeScript**, specifically designed to help users create professional, ATS-friendly resumes that stand out to recruiters.
- Leveraged **Supabase** as the primary backend-as-a-service solution for secure user authentication and managing robust data persistence for all resume details.
- Integrated **Gemini 1.5 Flash API** through a secure backend, providing intelligent content suggestions and on-the-fly optimizations for each section of the resume.

REFERENCE

DR. HALINAWATI BINTI HIROL

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System Electronic Engineering,
Faculty Malaysia-Japan International
Institute of Technology,
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EXTRACURRICULAR

SOFTWARE ENGINEERING SOCIETY | DEC 2024 - CURRENT

- **President:** Effectively led the organization, skillfully oversaw strategic to achieve organizational goals.

STUDENT REPRESENTATIVE COUNCIL | DEC 2023 - DEC 2024

- **Exco Student Welfare:** Actively advocated for student welfare and successfully organized support initiatives.



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PROJECTS

CALTRACK: CALORIE TRACKER | UTM Project

- Accomplished a streamlined user experience for daily calorie monitoring as measured by enabling intuitive, sub-10-second meal logging.
- Developing a cross-platform mobile application from the ground up using **Flutter**.
- Integrating **Firestore** Authentication for secure user sign-on and **Firestore** for real-time data.

FAKE NEWS DETECTION MODEL | UTM Project

- Accomplished the automated classification of news articles with an accuracy of 94.6% on a publicly available Kaggle dataset.
- Developing and training a machine learning model in **Python** using **scikit-learn** and **NLTK**.
- Implementing a complete data pipeline, including efficient data loading with **pandas** and feature extraction using **TF-IDF**.

STUDENT MERIT SYSTEM | SK. Integrasi Al-Alusi

- Accomplished a significant reduction in administrative overhead for the Student Merit & Demerit System as measured by optimizing the staff and student registration process.
- Developing a custom web application using **Ruby** to replace a manual, paper-based workflow.
- Integrating **Supabase** for the student records.

MOODCAST: WEATHER TRACKER | UTM Project

- Built a data-driven weather application that provides real-time weather information by fetching data from **OpenWeatherMap REST API**.
- Leveraged **TypeScript** to enforce type safety by creating custom interfaces for the complex.
- Utilized **React**'s **useEffect** hook to manage API calls effectively, triggering data fetches based on user input and component lifecycle events.

INVOLVEMENT

MAYBANK FOUNDATION

- Academic Scholar (Current)**: Awarded for academic excellence and leadership potential.
- Ambassador (2024)**: Represented Maybank to promote its initiatives by participated in Maybank events by organizer.

SOFTWARE ENGINEERING SOCIETY UTM

- President (Current)**: Led the society and oversee organized events to benefit community.
- Director (2025)**: Organized and directed society's Annual Grand Meeting 2025 for the interim.
- Secretary (2024)**: Managed records and facilitated communication in the organization.
- Liaison Officer (2024)**: Coordinate Flow and Protocol for handling Guests in events.

PEMBIMBING RAKAN SISWA UTM

- Acting President (2024)**: Led the organization and ensured smooth operations.
- Vice President (2024)**: Assisted in leadership, planning, and organizational management.
- Director (2023)**: Organized student development workshop for Event: Student Character Building.
- Exco Protocol (2023)**: Managed protocols and coordinated with external stakeholders.

THE HEDGETECH | TAILSNOTES

- Startup Founder (Current)**: Developing **TailsNotes**, full-stack AI application for student community.

SOFTWARE ENGINEERING DEPARTMENT UTMKL

- FYP Research (Current)**: Studied biometric image detection using CNN, on iris recognition with the CASIA-IrisV4 dataset, including data scraping and model testing in **Python** (TensorFlow, Keras)
- Research Assistant (2025)**: Conducted a literature review on CNN+LSTM models and experimental testing using **Python** (Tensorflow).

STUDENT REPRESENTATIVE COUNCIL UTM

- Exco Student Welfare (2024)**: Advocated for student welfare and organized support initiatives.
- Director (2024)**: Initiate the Scholarship Hunter project to aid student on financial issues.
- Deputy Director (2024)**: Organized the planning for Event: Minggu Mesra Mahasiswa 2024.
- Deputy Director (2024)**: Organized the planning for Event: Eid Al-Fitr Celebration UTMKL 2024.
- Liaison Officer (2024)**: Facilitated communication with China's delegates on UTMKL business travel.
- Panelist Guest (2024)**: Invited to share a book experience for UTMKL Library Book Sharing Event.