

ILHAM MAULANA

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Padang, West Sumatera, Indonesia

EXECUTIVE SUMMARY

Fresh graduate in Electrical Engineering from Yogyakarta State University with a strong focus on Computer Engineering, particularly Frontend and React development. Experienced in building responsive web applications using React, JavaScript, and Typescript, with hands-on experience as a Distinction Graduate (Top 10%) from Bangkit Academy 2023 and Indosat Ooredoo Hutchison Digital Camp (IDCamp).

EDUCATION

Bachelor of Electrical Engineering, Yogyakarta State University Aug 2021 – Dec 2025

- GPA: 3.75/4.00 - Cum Laude
- Relevant Coursework: Web and Database Programming, Computer Programming, Machine Learning and Modeling, Artificial Intelligence.
- Thesis Title: “Development of a React.js-Based Web Application for Cross-Device File Transfer Using Hand Gesture Recognition with Tensorflow.js”.

INTERNSHIP EXPERIENCE

React Developer, Indosat Ooredoo Hutchison Digital Camp (IDCamp) Sep 2024 – Jan 2025

- Developed 2 responsive and interactive frontend web applications using React, implementing reusable components, hooks, and component-based architecture to improve maintainability and scalability.
- Applied modern UI/UX best practices and responsive design principles, ensuring consistent user experience across desktop and mobile devices.
- Completed structured training and hands-on React projects covering Frontend Web Development, React, and Artificial Intelligence fundamentals.

Distinction Graduate, Cloud Computing Learning Path, Bangkit Academy By Google, GoTo, Traveloka - MSIB Batch 5 Aug 2023 – Dec 2023

- Completed 1 end-to-end capstone project integrating Cloud Computing, Machine Learning, and Mobile Development with a team within 2 months.
- Built and deployed cloud-native backend services using Google Cloud Run and core Google Cloud Platform (GCP) services to support application deployment.
- Developed web and backend components using JavaScript and Python, implementing RESTful APIs within a cloud-based architecture.
- Applied basic DevOps practices, including deployment, environment configuration, and cloud resource management, and participated in the Associate Cloud Engineer certification exam.

PROJECT EXPERIENCES

Code Compiler Website with React Oct 2025

- Developed a web-based code editor using React (Vite) and TypeScript, supporting multiple programming languages in a single interface.
- Integrated Monaco Editor with in-browser code execution and live preview, enabling real-time feedback during coding.
- Implemented a responsive and modern UI using Tailwind CSS and shadcn/ui, ensuring usability across desktop and mobile devices.

Split Bill Website with React

Aug 2025 – Sep 2025

- Developed a responsive expense-splitting web application using React (Vite) and Tailwind CSS to manage group expenses with multiple participants.
- Implemented features for member management, item assignment, tax/fee/discount/tip calculation, and automatic cost distribution with rounding options, reducing manual calculation errors.
- Enabled real-time state updates and shareable expense summaries, improving usability and accessibility across different devices.

HandSnap – AI Gesture Transfer File Website (Undergraduate Thesis)

May 2025 – Jul 2025

- Developed a real-time, touchless file transfer web application using React and TensorFlow.js, enabling gesture-based user interaction.
- Implemented an LSTM-based gesture recognition model using MediaPipe Hands, trained on 1,800 gesture datasets with 2 gesture classes, processing 21 3D hand landmarks.
- Integrated a Flask REST API to support cross-device file synchronization and measured system performance, including latency and response time.

Music Mood Detection Website with React

Jun 2025 – Jul 2025

- Built a web-based music recommendation application using React (Vite) that detects user emotional states in real time via webcam input.
- Integrated a CNN-based facial emotion recognition model and Spotify API to generate personalized music recommendations and playlists.
- Implemented responsive UI and real-time state management, delivering a smooth and interactive user experience.

ORGANIZATIONAL EXPERIENCES

Member, INFINITE Information Technology Division, Technology Engineering

Nov 2022 – Dec 2024

- Developed interactive websites using HTML, CSS, and JavaScript, focusing on layout, interactivity, and user experience.
- Contributed to end-to-end web development, covering both frontend and backend components using modern web frameworks.
- Built 1 interactive movie website as a final project using React, demonstrating the ability to develop dynamic and responsive web applications.

Member, Swimming Club (UKM Renang)

Nov 2022 – Nov 2023

- Actively participated in swimming training sessions three times a week to maintain physical fitness and endurance.

SKILLS, ACHIEVEMENTS & OTHER EXPERIENCE

- **Language:** Indonesia (Native), English (Fluent)
- **Hard Skills:** Web Development, React JS, Internet of Things, Cloud Computing, Machine Learning, Application Programming Interface (API), Debugging
- **Soft Skills:** Problem Solving, Growth Mindset, Leadership, Time Management, Critical Thinking, Teamwork, Adaptability, Resilience, Project Management
- **Software:** Visual Studio Code, Arduino IDE, Google Cloud Platform (GCP), Node.js, XAMPP, Laragon, Supabase, Firebase, Microsoft Office (Word, Excel, PowerPoint)
- **Programming Languages:** JavaScript, Python, PHP
- **Portfolio:** <https://my-portfolio-d.vercel.app/>