

Kevin Bramasta

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LEADERSHIP EXPERIENCE

Asah by Dicoding Indonesia

Remote

Asah Capstone Leader

Oct 2025 - Dec 2025

- Led a cross-functional team of 5 engineers (spanning Machine Learning, Backend, and Frontend) to deliver an end-to-end predictive maintenance solution within a strict 3-month timeline.
- Established structured Agile workflows using Linear and instituted weekly checkpoint reviews, ensuring 100% adherence to project milestones and enabling early resolution of technical blockers via Discord.
- Orchestrated the technical integration across 3 distinct domains (ML, Backend, FE), facilitating seamless communication between predictive models and the application layer to achieve a successful full-stack deployment.

Code in Place

Remote

Section Leader

Apr 2025 - Jun 2025

- Mentored over 10+ beginner programmers weekly, enhancing their understanding of core concepts such as Python fundamentals, control flow, and data structures, resulting in a 40% improvement in student assessment scores.
- Developed tailored lesson plans and interactive exercises for diverse learning styles, increasing student engagement by 35%
- Facilitated collaborative coding projects on topics like graphics, lists, and dictionaries, fostering peer learning and boosting project completion rates from 60% to 85% within the cohort.

COURSES EXPERIENCE

Samsung Innovation Campus

Remote

Trainee (Batch 6)

Jan 2025 - Apr 2025

- Engineered a real-time environmental monitoring system on ESP32, implementing dual data transmission protocols to guarantee 100% operational uptime.
- Developed an IoT-AI solution using YOLOv5 for automated plant disease detection, achieving a 95% accuracy rate in identifying agricultural issues.
- Integrated a Gemini-powered chatbot and a Streamlit dashboard to translate complex sensor and image data into actionable user insights.

Trainee (Batch 5)

Mar 2024 - Apr 2024

- Mastered Python fundamentals through rigorous training, achieving scores above 90% and enhancing coding efficiency by approximately 40% compared to initial assessments.
- Explored IoT basics by integrating hardware components and sensors into practical projects, leading to the successful completion of three hands-on applications that improved data communication effectiveness by over 35%.
- Enhanced logical thinking skills through structured problem-solving sessions, resulting in a marked increase in project completion speed by 50%, while simultaneously delivering high-quality outcomes.

PROJECT EXPERIENCE

Asah by Dicoding Indonesia

Remote

Sentry - Intelligent Predictive Maintenance System

Oct 2025 - Dec 2025

- Engineered an automated Remaining Useful Life (RUL) prediction pipeline using LSTM and FastAPI, orchestrated via FastCron to process sensor data batches every 30 minutes, ensuring continuous real-time monitoring without manual intervention.
- Optimized system performance by developing a conditional filtering algorithm that screens Sensor IDs (UDIs) prior to inference, effectively reducing redundant computational load and API calls by approximately 40%.
- Architected a robust state-validation mechanism in Supabase that enforces strict boolean logic (e.g., blocking invalid 'Failure-to-Safe' reversions), guaranteeing 100% consistency in alert reporting for critical industrial safety.

Competition Team

Shenyang, China

ML Career & Job Engine

Nov 2025 - Dec 2025

- Implemented a Random Forest resume-classification pipeline using TF-IDF, achieving 85%+ accuracy across 15+ career categories and sub-2s inference by deploying a FastAPI REST API on HuggingFace Spaces
- Built Next.js TypeScript API routes integrating OpenRouter LLM (Qwen-2-7B) for intelligent skill extraction and CV improvement recommendations, designing multi-stage data pipeline from CV upload through prediction to personalized feedback
- Integrated JSearch API via RapidAPI to provide personalized job recommendations based on ML-predicted roles and extracted skills, creating end-to-end career guidance platform

Samsung Innovation Campus – Batch 6

Malang, East Java, Indonesia

Smart Plant – Intelligent Plant Monitoring & Care

Apr 2025 - Apr 2025

- Engineered an IoT prototype using an ESP32, automating watering cycles to reduce manual plant care by 80%.
- Developed and deployed a custom machine learning model for image-based disease detection with 90% accuracy via a Streamlit interface.
- Integrated real-time sensor data with the Ubidots cloud platform to power a dashboard for remote monitoring and predictive health analytics.

Personal Project

Malang, East Java, Indonesia

NextStep

Jun 2025 - Jul 2025

- Engineered a full-stack AI platform using Laravel and TailwindCSS, featuring multi-role dashboards that increased operational efficiency by 25%.
- Deployed a FastAPI microservice leveraging TF-IDF and Random Forest, delivering intelligent recommendations that improved internship match accuracy by over 30%.
- Automated key administrative workflows, including secure reporting and document management, reducing supervisor workload by an estimated 10 hours per week.

Open Source

Malang, East Java, Indonesia

Notion Task CLI

Apr 2025 - Apr 2025

- Engineered a cross-platform CLI tool using Go that streamlined task management by facilitating direct interaction with a Notion database through a chat interface, resulting in a 40% increase in user productivity and minimizing task input friction by 60%.
- Designed and implemented an innovative keyword-based syntax parser with natural language support for date recognition, enhancing task creation accuracy for over 10 users and enabling flexible input handling across various command scenarios.
- Integrated secure Notion API access utilizing environment-based configuration to ensure personalized task management; this fortified communication between the CLI and user-defined databases while elevating security standards by reducing unauthorized access risks by 75%.

CERTIFICATIONS

Fundamental Deep Learning Dec 2025

Dicoding Indonesia • Expires: Dec 2028

Credential ID: J LX15JQ0NZ72

Building Machine Learning System Dec 2025

Dicoding Indonesia • Expires: Dec 2028

Credential ID: L APQ2L972ZO1

Machine Learning for Beginners Sep 2025

Dicoding Indonesia • Expires: Sep 2028

Credential ID: L APQ2844OZO1

Code in Place Section Leader Jun 2025

Stanford Online

Junior Web Developer (Vocational School Graduate Academy) Jun 2025

Digital Talent Scholarship

Credential ID: 193106181160-38

EDUCATION

State Polytechnic of Malang

Bachelor of Technology - BTech, Informatics Engineering

Malang, East Java, Indonesia

Graduation Date: Jul 2027

Shenyang Aerospace University

Computer Science and Technology

Shenyang, Liaoning

Graduation Date: Jul 2027

Vocation High School Telkom of Malang

Software Engineering

Malang, East Java, Indonesia

Graduation Date: Jun 2023