

Joseph Saputra

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EDUCATION

Macalester College

Bachelor of Arts in Computer Science | GPA: 3.59/4.0

St. Paul, MN

Sept. 2023 – May 2027

Honors & Awards: Kofi Annan Scholar & UWC Davis Scholar, Flemming First Generation Student Scholar

EXPERIENCE

Website Developer

January 2024 – Present

Communication Team of Macalester College

St. Paul, MN

- Manage the frontend of Macalester's website leveraging (HTML, CSS, JavaScript), and optimize its SEO by 15%
- Automate link checks using Java to streamline web scraping and maintenance, fixing 100+ broken links weekly
- Enhance website accessibility by managing content, updates, and resolving errors for 10,000+ weekly visitors

Computer Vision Research

October 2024 – December 2024

PT. Adi Citra Sakti (Remote)

Jakarta, Indonesia

- Lead a team of 3 software engineers from Singapore and the UK to conduct research in computer vision: biometrics
- Design and implement a CPU-optimized biometric facial recognition system, reducing processing costs by 30%
- Deploy the app using Docker for consistent cross-platform performance and utilized Pub/Sub for real-time alert

Software Engineer Intern

June 2024 – August 2024

Mekari - Indonesia's No. 1 SaaS Company

Jakarta, Indonesia

- Developed and optimized web applications using React, enhancing user experience for 1,000,000+ platform users
- Fixed 50+ bugs and errors in the frontend, improving overall application performance and stability of the app
- Collaborated with 3 product managers in an Agile Development environment to oversee full SaaS product creation

Startup Project Leader

May 2024 – July 2024

Macalester College (Remote)

Jakarta, Indonesia

- Developed PlatePal, a platform for restaurants to sell unsold food at reduced prices, reducing food waste
- Built the entire application using Flutter and Dart, implementing Firebase for backend integration
- Conducted market research in 10 Indonesian cities and collaborated with the Indonesian Ministry of Agriculture

MOST RECENT PROJECTS [\(GITHUB\)](#)

GrowMore Research | Python, TensorFlow, Data Analysis, Neural Network

Sept 2024

Developed a neural network model for the Indian market index fund, trained quarterly with a team of 5 analysts

Book Management System | Java, JSP, MySQL

May 2024

Developed a web app showcasing MVC architecture and CRUD operations for 1,000+ book management

Fake News Detector | Python, Scikit-learn, TfIdfVectorizer

Oct 2024

A neural network model for fake news detection using TF-IDF vectorization and other 4 ML algorithms

S&P 500 Stock Price Predictor | Python, PyCaret, PyTorch, Machine Learning

Sept 2024

A machine learning app to predict stock prices, trained on +2,000 S&P 500 stocks with 55% accuracy

PlatePal | Flutter, Dart, Firebase

August 2024

Created a mobile app for food delivery that enables users to browse menus, place orders, sell unsold foods, etc

Quiz AI App | Next.js, TypeScript, OpenAI API, PostgreSQL, Drizzle

Oct 2024

Built a web app that converts PDFs into quizzes, generating over 1,000+ to support student learning

SumAI | React.js, OpenAI API, Firebase

Dec 2023

Developed a web app utilizing GPT-4, which has been used to summarize over 500 articles efficiently

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, Dart

Frameworks/Tools: MongoDB, PostgreSQL, MySQL, ML, GIT, Flutter, React, Tailwind, NodeJs, NextJs

Coursework: Object-Oriented Programming, Data Structures, Algorithm Designs, Discrete Math, Computer Systems