

# Vissuta Gunawan Lim

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## SUMMARY

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Computer Science student specializing in **Software Engineering**, **AI/ML Engineering**, and **Full-Stack Development**. Proven experience building **production-ready applications** with modern frameworks (**React**, **Next.js**, **FastAPI**, **Spring**) and deploying **scalable solutions** on **AWS**. Expertise in **frontend/backend development**, **AI/ML engineering** with **LLMs**, **computer vision**, and **multi-agent systems**. Strong foundation validated through national/international competition wins and practical experience developing applications serving **10,000+ users**.

## EDUCATION

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### Bachelor of Computer Science

Jun 2023 – Jun 2027 (expected)

Universitas Indonesia

- 4<sup>th</sup> semester, Cumulative GPA: 3.84/4.00

## WORK EXPERIENCE

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### Teaching Assistant of Calculus 2

Aug 2024 – Dec 2024

Faculty of Computer Science, Universitas Indonesia

- Assisted lecturer in delivering course content on Improper Integral, Polar Coordinates Calculus, and Multivariate Calculus to 20 undergraduate computer science students.

### Software Engineer Intern

Jul 2025 – Oct 2025

Gradient

- Enhancing **AI copilot feature** by implementing **contextual algorithms** that increased user engagement by **40%** and reduced average task completion time by **25%**
- Developing **personalized learning recommendation system** serving **10,000+ active users**, resulting in **30% improvement** in course completion rates and user satisfaction
- Collaborating with **5-person cross-functional team** to deliver **10+ feature updates** and resolved **30+ user-reported issues** within 3-month internship period

## LEADERSHIP AND ORGANIZATIONAL EXPERIENCE

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### Lead of Data Science & Artificial Intelligence SIG

Feb 2025 – Present

RISTEK Fasilkom UI

- Teaching **AI/ML concepts** and leading group projects utilizing **NLP**, **Computer Vision**, and **LLMs**
- Contributing to research discussions on recent advancements in **data science** and **AI domain**.

### Staff of Information Technology Department

Jun 2024 – Jan 2025

BEM Fasilkom UI

- Contributed to organizational projects applying **front-end development** skills including **CSS**, **JavaScript**, **HTML**, **React.js**, and **Next.js** to enhance faculty's accessibility and publications.

## PROJECTS

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### PerbaikinAja Web App — Docker, AWS, Spring, React

March 2025 - May 2025

- Led **backend development** for a **full-stack web application** for repair services, designed the **system architecture**, **database design**, and **cloud deployment strategy**.
- Implemented **automated CI/CD pipeline** using **GitHub Actions** with **automated testing**, **Docker containerization**, and deployment to **AWS EC2 instances** with automated health checks and rollback mechanisms for **zero-downtime deployments**, reducing manual deployment time and human error by **50%**.

## Multi Agents Crypto Analysis System — *LangGraph, LangChain, DeepSeek*

July 2025

- Architected **hierarchical multi-agent system** with **5 specialized agents** (financial analyst, risk manager, trading strategy, manager, and critic) delivering comprehensive cryptocurrency market insights
- Implemented **LangGraph workflow** orchestrating **agent interactions** and **data flow**, including **automated critique and validation system** ensuring output quality, resulting in **40% improvement** in investment decision confidence scores

## Chaotic Categories Game — *FastAPI, Next.js, Modal Labs, Pinecone*

June 2025 - July 2025

- Engineered a **real-time party game** with **AI-powered scoring system** using **BERT embeddings** and **Pinecone vector database** to evaluate answer relevance and creativity, processing user inputs **asynchronously** to maintain **sub-second response times**
- Implemented **serverless GPU-accelerated backend** on **Modal Labs** with **FastAPI**, achieving **90% cost reduction** compared to traditional hosting while maintaining **scalability** for concurrent users through **automatic container orchestration**
- Built **production-ready full-stack application** with **Next.js frontend** and **PostgreSQL/Pinecone dual-database architecture**, deploying to **Vercel** with **CI/CD pipeline** and comprehensive error handling for **zero downtime application**.

## Gradient Copilot — *FastAPI, Next.js, Gemini API, SerpAPI*

June 2025

- Built **full-stack AI learning assistant chatbot** with **FastAPI backend** and **Next.js frontend**, integrating **Google Gemini API** for conversational AI, **SerpAPI** for web search functionality, and **image upload/analysis capabilities**.
- Deployed **scalable solution** on cloud platforms (Railway, Vercel) with **automated CI/CD pipeline** and comprehensive **API documentation**

## HONORS AND AWARDS

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- **[National, Jan 2025]** Finalist of **AI Hackathon** held by Institut Teknologi Bandung and Telkomsel. Progressed past **330+ teams** with **TRACE: Traceable Real-time Adaptive Continual Explainable Deep Fake Detection System** using **Audio Visual Feature Fusion model**, implemented with **FastAPI web framework** and **PyTorch deep learning framework** for **large-scale video data processing**.
- **[Southeast Asia Regional, Oct 2024]** 1st Winner of **Data Analysis Competition** on Predictive Analysis for Sustainable Energy by Institut Teknologi Sepuluh Nopember. Placed first among **355+ teams** across Southeast Asia by implementing **data analysis** and **machine learning solutions**, including **AutoML modeling** and **feature engineering techniques** for solar power output prediction.
- **[International, Aug 2024]** 3rd Winner of **RISTEK Datathon 2024** by RISTEK Fasilkom UI, a research and tech-related organization at the Faculty of Computer Science, Universitas Indonesia. Placed 3rd among **300+ international teams** by developing a **Bank Loan Fraud Detection System** using **Temporal Graph Neural Networks** in the qualification phase, then developed an **e-commerce Semantic Search Engine** using **Cross-Encoder architecture** and **Contrastive Learning** in the finals, improving product search relevance for better customer experience.

## CERTIFICATIONS & SKILLS

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- **Skills:** Data Science, Artificial Intelligence, Deep Learning, Computer Vision, Natural Language Processing, Data Analysis, Machine Learning, Large Language Model, Python, Pandas, Pytorch, SQL, Information Retrieval, Docker, AWS, Cloud Deployment, Backend Development
- **Certifications:** [Udemy: Deep Learning Course \(2025\)](#), [DataCamp: Data Scientist Track in Python \(2025\)](#), [Datacamp: Associate AI Engineer for Data Scientists Track \(2025\)](#), [Ruangguru Engineering Academy: Mastering AI Bootcamp \(2025\)](#), [Udemy: Ethereum and Solidity Course](#)