

Akmal Ramadhan

A Computer Science student with a strong interest in Software Engineering and Data Science. Eager to learn new skills and gain new experiences.

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🐙 GitHub Profile

🌐 LinkedIn Profile

🌐 Personal Web

Education

Universitas Indonesia <i>Bachelor of Computer Science</i>	GPA: 3.98/4.00	<i>Depok, Jawa Barat</i> <i>Aug 2022 – Now</i>
◦ Coursework: Data Structure and Algorithm, Software Engineering, Advanced Programming, Databases, Human-Computer Interaction, Intro to AI & Data Science, Knowledge Graph, Deep Learning, Information Retrieval.		
SMA Negeri Unggulan Mohammad Husni Thamrin Jakarta <i>Senior High School</i>		<i>Bambu Apus, DKI Jakarta</i> <i>July 2019 – May 2022</i>
◦ Cambridge International AS Level - Pure Mathematics: a		

Projects

SiNgawas	<i>Django, React + Vite, Docker, Redis</i>	🔗 View Project
◦ Developed for Lembaga Asisten Fasilkom UI to solve a operational bottleneck in proctor registration and room assignment. Automates the entire workflow from registration to final placement, drastically reducing administrative overhead and human error.		
JPEG	<i>Next.js, Flask, Blazegraph</i>	🔗 Source Code
◦ An innovative platform combining local and remote knowledge graphs to provide users with a comprehensive film discovery experience. Utilizes Next.js for the frontend, Flask for the backend, and Blazegraph as the graph database to enable deep semantic connections.		
GanJar	<i>Figma</i>	🔗 View Prototype
◦ Designed a high-fidelity prototype using Figma for a peer-to-peer academic support and knowledge-sharing platform. The prototype demonstrates the complete user experience and interface design for collaborative learning among students.		
MovSearch	<i>Elasticsearch, FastAPI, LLM, Next.js</i>	🔗 View Project
◦ Engineered a search application leveraging Elasticsearch for efficient data indexing and a FastAPI backend with LLM integration for result summarization. Enhanced the movie discovery experience by providing concise, AI-summarized information from advanced, natural-language search queries.		

Experience

Coordinator Teaching Assistant <i>Introduction to Digital Systems, Introduction to Computer Organization, Automata & Theory of Languages, and Numerical Analysis</i>	<i>Depok, Jawa Barat</i> <i>Aug 2023 – Now</i>
◦ Coordinated task distribution and managed administrative duties for teaching assistants.	
◦ Collaborated with a team of teaching assistants to develop lab questions, assignments, and tutorials.	
◦ Assisted students in understanding course materials and answering questions.	
◦ Reviewed and graded lab work and assignments.	

Volunteering

Staff of Media Bureau <i>BEM Fakultas Ilmu Komputer Universitas Indonesia</i>	<i>Depok, Jawa Barat</i> <i>Apr 2023 – Jan 2024</i>
◦ Designed Instagram posts and promotional materials to enhance online engagement.	
◦ Created digital magazines to showcase BEM activities.	
◦ Documented various BEM events through photography and videography.	
◦ Produced an end-of-term video highlighting the organization's achievements.	
Expert Staff of Competitive Programming Contest <i>COMPFEST</i>	<i>Depok, Jawa Barat</i> <i>Mar 2024 – Jan 2025</i>
◦ Assisted with participant registration for the Competitive Programming Contest (CPC).	
◦ Contributed to the development of the competition's web system.	
◦ Supervised the contest to ensure smooth execution.	
Project Officer <i>Dasar-Dasar Pemrograman 0</i>	<i>Depok, Jawa Barat</i> <i>July 2023 – Sep 2023</i>
◦ Led the organization of DDP-0, an introductory programming event for incoming CSUI 2023 students.	

- Managed a team of 230 committee members to ensure smooth event execution.
- Oversaw event planning, logistics, and participant engagement for 380 attendees.

Staff of Visual Design

Pesta Rakyat Komputer

Depok, Jawa Barat

Mar 2023 – Sep 2023

Acedemic Staff & Instructor

BETIS (Bimbingan Belajar Gratis)

Depok, Jawa Barat

Dec 2022 – May 2023

Vice Head of Publication and Doumentation

OSIS SMANU M.H. Thamrin Jakarta

Bambu Apus, DKI Jakarta

2020 - 2021

- Documented OSIS programs through articles, audio, photos, and videos for public publication.
- Developed a website to support OSIS programs.
- Generated revenue through the production and sale of printed media.

Staff of Design, Decoration, & Artistic

Thamrin Olympiad and Cup & JVLYN 5.0

Bambu Apus, DKI Jakarta

2020 - 2021

Licenses & Certifications

Informatics Olympiad National Training

Ikatan Alumni Tim Olimpiade Komputer Indonesia (IA TOKI)

Credential ID 052/PPN/SMA/2021

Issued Dec 2021

Honors & Awards

Highest Cumulative GPA – Academic Year 2022/2023	<i>2023</i>
Finalist – ICPC Asia Regional Jakarta	<i>2023</i>
Finalist – National Science Competition (OSN) in Informatics	<i>2021</i>
1st Place – Logics Competition JOINTS UGM	<i>2021</i>
1st Place – National Programming Logical Competition Universitas Ciputra	<i>2021</i>
1st Place – Informatics Day ULC UII	<i>2021</i>
2nd Place – Electrical Engineering Competition (EEC) Technocorner UGM	<i>2021</i>
2nd Place – Information Systems Airlangga Competition (ISAC) UNAIR	<i>2021</i>
2nd Place – Informatics Logical Programming Competition (ILPC) UBAYA	<i>2021</i>

Technical Skills

Languages	C++, Python, Java, Rust, SQL, JavaScript, TypeScript, SPARQL
Frameworks & Libraries	React, Next.js, Flask, FastAPI, Django REST Framework, Vite, Tailwind CSS, Celery
Databases	PostgreSQL, Elasticsearch, Redis, Blazegraph
DevOps	Docker, Nginx, GitLab CI/CD, Sentry, Git
UI/UX Design	Figma
AI/ML	PyTorch, TensorFlow