GAVIAN ARSANAUTIKA ALUGORO

Data Scientist | AI Engineer | Tech Enthusiast

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PROFESSIONAL SUMMARY

Results-driven Information Systems graduate with lifelong passion for technology and proven expertise in AI/LLM systems and full-stack development. Successfully delivered production-ready RAG systems, containerized applications, and enterprise web platforms across four internships. From early fascination with computers to specializing in networking and game development, I've cultivated strong technical skills and adaptability. Demonstrated ability to rapidly learn new technologies, solve complex problems, and deliver measurable business impact. Eager to contribute innovative solutions.

EDUCATION

- **Bakrie University** *Sep 2021 – Aug 2025*
  Bachelor of Information Systems | CGPA: 3.46/4.00 *South Jakarta, Indonesia*
  - **Relevant Coursework:** Database Systems, Web Development, Systems Analysis & Design, AI Implementation
  - **Acceleration Program from Celerates School:** Web Development & UI/UX Design (Feb – Jul 2024)
  - **Activities:** Participated in multiple tech competitions and seminars; completed SAS Academic Specialization

- **SMK Negeri 46 Jakarta** *Sep 2018 – Jun 2021*
  Software Engineering – Vocational High School *East Jakarta, Indonesia*
  - Early specialization in software development and programming fundamentals

PROFESSIONAL EXPERIENCE

- **PT. Wijaya Karya Persero Tbk (State-Owned Enterprise)** *Aug 2024 – Dec 2024*
  IT Infrastructure Intern *Jakarta, Indonesia*
  - Built a PHP and MySQL-based news website for an employee union to facilitate communication and information sharing among staff
  - Provided technical support for enterprise systems with 90%+ first-call resolution rate, handling 5+ tickets weekly
  - Documented system configurations and created user guides, enhancing knowledge transfer within the IT team

- **PT. Barakas Media System** *Jun 2023 – Aug 2023*
  Systems & Network Engineering Intern *Jakarta, Indonesia*
  - Deployed virtualized infrastructure using VMware, Docker, and PROXMOX, consolidating 5 physical servers into optimized virtual environments, reducing hardware costs by an estimated 30%
  - Installed and configured rack-mounted server equipment in production data center, ensuring 99.9% network availability
  - Built 8 custom workstations optimized for specific use cases (video editing, 3D rendering, data analysis), meeting performance requirements within budget constraints
  - Implemented Docker containerization for client applications, reducing deployment time from hours to minutes

- **PT. Balai Lelang Walindo** *Jan 2020 – Apr 2020*
  IT Support Intern (High School Internship) *Jakarta, Indonesia*
  - Provided technical support for computer systems, peripherals, and network equipment for auction house operations
  - Assisted in troubleshooting hardware and software issues, maintaining system uptime during critical auction periods
  - Gained early exposure to enterprise IT support in a fast-paced business environment

- **PT. Smart Soft Studio** *Jul 2019 – Oct 2019*
  Web Development Team Lead (High School Internship) *Jakarta, Indonesia*
  - Led team of 3 developers in delivering database-driven web applications using HTML, CSS, JavaScript, and phpMyAdmin
  - Established code review processes and development best practices, improving code quality and reducing bugs by 25%

KEY TECHNICAL PROJECTS

Retrieval-Augmented Generation (RAG) System | *Python, LangChain, FAISS, OpenAI API, Docker*
- Engineered end-to-end RAG system integrating vector databases with LLMs to generate contextually accurate responses, achieving 35% improvement in answer relevance over baseline GPT prompting
- Implemented optimized text chunking and embedding pipeline processing 50,000+ document embeddings with sub-second query response times using FAISS indexing
- Built automated data preprocessing pipeline with quality validation, reducing manual data preparation time by 80%
- Created comprehensive evaluation framework measuring coherence, accuracy, and relevance metrics across 500+ test queries

Containerized LLM Deployment Platform | *Docker, FastAPI, Python, LLaMA*
- Designed and deployed containerized infrastructure for running LLMs both locally and via cloud APIs, enabling flexible model serving
- Optimized inference performance through model quantization, reducing memory footprint by 40% while maintaining output quality
- Developed RESTful API wrapper using FastAPI for seamless frontend integration, supporting 100+ concurrent requests

Multiplayer Game Server Infrastructure | *Linux, Docker, Nginx, WebSocket*
- Built and configured dedicated multiplayer server supporting more than 50 concurrent players with low average latency
- Implemented containerized deployment using Docker Compose, enabling one-command server provisioning and updates
- Configured network security (firewall rules, port forwarding, DDoS protection) ensuring stable 24/7 operation

Lightweight Content Management System | *JavaScript, Node.js, MySQL, HTML/CSS*
- Developed full-stack CMS with article CRUD operations, user authentication, and submission tracking system
- Designed responsive, mobile-first interface with accessibility standards (WCAG 2.1 AA compliance)
- Optimized database queries and implemented Redis caching, improving page load times by 65%

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, HTML5, CSS3, Bash, Unity (C#)

AI & Machine Learning: LLM Integration (OpenAI, LLaMA), RAG Systems, Vector Databases (FAISS, Pinecone), Text Embeddings, Prompt Engineering, Model Evaluation, LangChain

Web Development: React.js, Node.js, FastAPI, RESTful APIs, Responsive Design, Git, Webpack

Infrastructure & DevOps: Docker, Docker Compose, Linux Administration (Ubuntu, Arch Linux), VMware, PROXMOX, CI/CD concepts

Database & Storage: MySQL, PostgreSQL, SQL Server, Redis, Query Optimization

Networking: TCP/IP, Port Forwarding, NAT Configuration, Firewall Management, Network Troubleshooting

Tools: VS Code, Git/GitHub, Postman, phpMyAdmin, Nginx, System Monitoring Tools

ACHIEVEMENTS & CERTIFICATIONS

Competition Achievements:
- **3rd Place** – IT Software Solution for Business, LKS SMK Jakarta (2018) – Visual Studio VB & SQL Server
- **2nd Place** – Fast Typing Competition, Olimpiade TIK Nasional (2017) – Current proficiency: 118 WPM, 78% accuracy
- **Participant** – ALSA National English Competition, Spelling Bee (Varsity) (2022)
- **Participant** – Markoding, Digital Innovation Challenge (3-Day Event) (2019)
- **Participant** – Lomba Keterampilan Siswa SMK, Web Design (2019)

Professional Development:
- **AI-Powered Apps for Scientific Research** – 1-Hour Online Training (2023)
- **Guest Lecture** – "Mau Tulisanmu Menjadi Cuan Di Media Digital? Let's Make It Happen!" (2023)
- **SAS Academic Specialization** – Information Systems (2022)
- **Data Talent Analytics Seminar** – Bakrie University & Cybertrend Data Academy (2022)
- **Webinar** – "Generator: Your Data is Your Priority" (2022)

REFERENCES

Adjie Prabowo	**Gian Antariksa, Ph.D**
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