

GANTANG SATRIA YUDHA

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ABOUT ME

Passionate software engineer specializing in frontend and backend web development. Driven by a commitment to academic excellence, with demonstrated success in software engineering challenges and a strong background in technical leadership through academic mentoring. Adept at collaborating in cross-functional teams and delivering high-quality software solutions.

EDUCATION

UNIVERSITAS BRAWIJAYA (2023 - Present)

Bachelor, Information Technology - GPA 3.91

EXPERIENCE

Teaching Assistant of Advance Programming

Faculty of Computer Science, Brawijaya University (February 2025 - June 2025)

- Hold interactive lab sessions to explore key Object-Oriented Programming (OOP) concepts such as inheritance, encapsulation, and polymorphism.
- Provide hands-on coding tasks and projects to strengthen students' understanding and skills in applying theoretical knowledge.

Teaching Assistant of Web Application Programming

Faculty of Computer Science, Brawijaya University (September 2025 - December 2025)

- Guided 31 students in building dynamic websites using PHP and Laravel Framework.
- Assisted students in understanding the MVC (Model-View-Controller) architecture and modern backend workflows.
- Conducted code reviews and troubleshooting focused on database integration, CRUD operations, and session management.

Teaching Assistant of Data Structures and Algorithms

Faculty of Computer Science, Brawijaya University (September 2025 - December 2025)

- Conducted live coding sessions for 36 students, demonstrating real-time implementation of complex algorithms.
- Mentored students in implementing fundamental data structures (linked lists, stacks, queues, trees) and optimizing algorithm efficiency.
- Assisted in grading and providing technical feedback on complex problem-solving tasks.

ACHIEVEMENT

2nd Place - Software Development Competition (SEVENT 9.0) (Dec 2025) Telkom University Purwokerto

- Developed **SpeakBuddy**, an AI-powered platform designed to support speech development for children with speech delay.
- Engineered the **Backend system** using **Go (Golang)** with the **Fiber framework** and **GORM**, utilizing **PostgreSQL** and **MongoDB** for efficient data management.
- Built a responsive and interactive **Frontend** using **Next.js** and **React** to facilitate seamless user experiences for parents and children.
- Integrated **Artificial Intelligence** capabilities using **Google Cloud Speech API** for voice-to-text conversion and **Gemini LLM** for speech analysis and feedback generation.

Best Project Collaboration - Software Engineer Path (May 2025) Arkavidia Academya 9.0 -
Institute of Technology Bandung (ITB)

- Developed '**MyCareer**', a mobile application platform designed to accelerate the transition of informal workers into formal employment through digital solutions.
- Implemented core features using **Flutter**, including **SkillQuest** (online courses/bootcamps), **JobPulse** (job listings), and **CareerPath** (career roadmaps).
- Integrated **AI-driven features** such as **CareerBot** (AI Career Coach) using **Gemini API** and **JobTrend** for real-time market analysis.

TECHNICAL SKILLS

TypeScript, Kotlin, Dart, Go (Golang), PHP, Java, JavaScript, React, Tailwind, Next.js, Flutter, Fiber, Laravel, SQL, PostgreSQL, Git