

Priyapta Naufal Sudrajat

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Penultimate-year Computer Science student at **Universitas Indonesia** with strong foundations in software development and system analysis. Proficient in **Java, Python, Go, and Dart**, with hands-on experience delivering web applications using Django, FastAPI, Flutter, Java Spring Boot, and Next.js. Finalist in the **IoT division of GEMASTIK 2025** by Kemendikbud. Active technical leader with experience in autonomous humanoid robotics, IoT systems, and student welfare leadership.

EDUCATION

Universitas Indonesia · Faculty of Computer Science (Fasilkom UI) Aug 2023 – Present

B.Sc. Computer Science **GPA: 3.27/4.0**

Relevant Coursework: Artificial Intelligence, Database Systems, Web Development, Mobile Development, Robotics Simulation

WORK EXPERIENCE

United Tractors · Full-Stack Engineer July 2026 – Present

Internship · Jakarta, ID

- Developed an Employee Dashboard to help Division Heads monitor employee data, performance, and development insights.
- Supported the migration of an internal Learning Management Platform, improving the maintainability and usability of the existing codebase.
- Collaborated with cross-functional stakeholders to translate business and employee-learning requirements into functional web solutions.

Universitas Indonesia · Teaching Assistant — Calculus Class I Aug 2025 – Dec 2025

Part Time · Depok, ID

- Facilitated structured learning sessions for 60 freshman students, translating complex calculus concepts into clear explanations.
- Reviewed and corrected student examination and quiz answers, assigning scores to ensure accurate and fair performance evaluation.
- Developed assessment materials and managed scoring data to support reliable reporting and continuous course improvement.

COMPETITIONS & PROJECTS

Spider · AI Research Assistant & Document Summarization Platform · Group Project

AI Engineer | July 2026 – Present

- Built a Retrieval-Augmented Generation (RAG) pipeline with document chunking, project-scoped retrieval, and grounded LLM responses supported by page-level citations, source quotes, and retrieval scores.
- Implemented real-time AI chat streaming using Server-Sent Events (SSE) to improve response delivery and user experience.
- Integrated OpenAlex for academic paper discovery, AI-assisted relevance evaluation, and importing research papers into project workspaces.
- Developed interactive knowledge graph visualization using Cytoscape.js, including graph merging to consolidate multiple document graphs into a unified research graph.

Ruang Terang Website · Company Profile · Freelancer

Full-Stack Engineer | June 2026 – July 2026

- Implemented web accessibility features based on WCAG principles, including semantic HTML, keyboard navigation, readable color contrast, alternative text, and accessible form components.
- Integrated Google Analytics to monitor website traffic, user acquisition, page performance, and visitor behavior.
- Created analytics tracking to identify the most visited pages and evaluate the effectiveness of digital campaigns and content.

SIRUANG · Fasilkom UI Room Booking Application

Full-Stack Engineer | Feb 2026 – May 2026

- Developed SIRUANG, a web-based room booking application for university facilities, streamlining the reservation process for students, academic staff, and external stakeholders.
- Engineered an automated email notification system to deliver real-time booking confirmations, reminders, and status updates to users upon reservation actions.
- Implemented real-time comment functionality using background processing to enable non-blocking user interactions and improve application responsiveness.

Campus Website Deployment · Academic Project

DevOps Engineer | January 2026 – May 2026

- Configured NGINX as a reverse proxy and load balancer to distribute incoming traffic across multiple application instances.
- Successfully supported 500 concurrent users during load-testing scenarios while maintaining a P99 response time of approximately 240 ms.
- Deployed and integrated Keycloak to provide centralized authentication and access management for the application.
- Conducted load, stress, integration, and deployment testing to identify performance bottlenecks and validate system reliability.

Jalalink · IoT Offshore Communication System

IoT Programmer | June 2025 – September 2025

- Developed Jalalink, an IoT-based communication system enabling fishermen to communicate in offshore areas with limited conventional network access.
- Built system integration between microcontrollers and wireless communication modules to transmit data between distributed devices.
- Customized the open-source Meshtastic mesh communication protocol using C/C++ for reliable long-range device-to-device messaging.
- Collaborated with local fishermen in Kampung Nelayan Jakarta to gather user requirements and validate the solution through real-world testing.

ORGANIZATIONAL EXPERIENCE

Gladiatos Humanoid Robotic Team · Technical Director Aug 2025 – Present

Depok, ID

- Led the technical direction and system architecture of an autonomous humanoid robot, integrating hardware, embedded systems, and software components.
- Deployed and validated robot simulations using ROS2, enabling faster prototyping and reducing integration risks before hardware testing.
- Coordinated system integration, debugging, and iterative testing across sensing, control, and actuation subsystems.
- Implemented structured testing workflows that improved system reliability and consistency during real-world trials.

SKILLS

Programming Languages: Python, Java, Go, JavaScript, SQL, C++, Dart

Frameworks & Tools: Django, Spring Boot, Next.js, Nuxt.js, Flutter, PostgreSQL, Redis, Git, GitHub, Docker, Figma

Soft Skills: Project Management, Leadership, Public Speaking, Team Collaboration, Problem-Solving, Time Management

Languages: Indonesian (Native), English (Professional Working Proficiency), Japanese (Beginner)