



# MAHARANI DEWI WULANSARI

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Mathematics student at Institut Teknologi Sepuluh Nopember (ITS) with a strong interest in software engineering, quality assurance, and project management. Experienced in backend development using Go and PostgreSQL, with hands-on knowledge of REST APIs, system integration, and UI/UX design. Experienced in leading tech teams and managing projects across the SDLC using Agile methodologies, from requirements and development to testing, deployment, and quality assurance.

## Work Experience

**Departemen Matematika ITS - Indonesia** 2025.09 - Sekarang  
Laboratory Assistant of Algorithm and Computer Programming

- Guided and taught first-year students in mastering Java and Object-Oriented Programming (OOP) concepts.

## Jenjang Pendidikan

**Institut Teknologi Sepuluh Nopember - Indonesia** 2024.07 - 2028.06 (Perkiraan)  
Bachelor of Mathematics, 3.35/4.00

- Actively participated in student events organised by KM ITS as a member of the organising team for events such as Ini Loh ITS! 2025, Gerigi x UKM Expo ITS 2025, OMITS 18th, Petrolida 2026, Futurest, and OMITS 19th.

**SMAN 5 Surabaya - Surabaya** 2020.07 - 2023.06  
Senior High School, Natural Science, 89.38/100.00

- Head of the German Language Division at the Global Linguistic Association of Smala Surabaya (GLASS), Treasurer of the Protestant Spirituality Sub- Section (SSKP), Active as a committee member in various school programmes such as S2LC, FIVETIVAL, SMALACUP, NOUVEAU, PELITA and others.

## Related Experiences

**Olimpiade Matematika ITS (OMITS) 19th - Kota Surabaya** 2026.03 - Sekarang  
Head of Information Technology

- Led the IT division consisting 20+ people and coordinated cross-functional technical teams such as backend, frontend, UI/UX, and game development.
- Engineered a high-throughput backend service using Go (Gin) and PostgreSQL, successfully managing 5,400+ user accounts and processing 2,200+ competition registrations with 99%+ system uptime.
- Automated CI/CD deployment workflows using Docker and GitHub Actions onto a production VPS monitored with Uptime Kuma and Grafana.
- Designed and reviewed system architecture to ensure performance, scalability, and cost efficiency.
- Managed backend development, database operations, and integration with cloud services such as object storage.
- Ensured system reliability, security, and proper logging for critical operations during high-traffic event periods.

**Futurest - Indonesia** 2025.11 - 2026.06  
Expert Staff of Backend Development

- Build clean, scalable, and secure RESTful APIs using Go, Gin, Gorm
- Develop a scalable PostgreSQL database schema to manage project architecture.
- Implement role-based access control to manage different levels of user permissions.
- Carrying out maintenance to ensure the stability and performance of the system.

**Apple Foundation Program @ UC** 2022.06 - 2022.07

#### UI/UX Designer

- Designed the user interface and user experience for a prototype of an iOS-based waste-tracking application.
- Applied basic Apple Human Interface Guidelines (HIG) to create an easy-to-use and accessible design.

#### Petrolida, OMITS 18th

2025.03 - 2026.05

#### Backend Developer

- Develop web-app on the backend using Go and Gin/Chi framework, as well as GORM for ORM.
- Develop a scalable PostgreSQL database schema to manage user registration.
- Implement role-based access control to manage different levels of user permissions.
- Carrying out maintenance to ensure the stability and performance of the system.

#### UKM Robotika ITS - Indonesia

2025.03 - 2026.01

#### Staff PSDM

- As deputy executive chair, I oversaw the organisation of the “ITS Robotics Club Welcome Party” , an event held to introduce the nine research teams under the auspices of the ITS Robotics Club, which was successfully attended by over 1,000 new members.

### Keterampilan, Prestasi & pengalaman lain

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- **Hard Skills:** App/Web Development, Data Management, QC and Logistics, UI/UX Design, Object-Oriented Programming.
- **Web Development:** Go, Typescript, PostgreSQL, Tailwind, Next.js, Docker. REST API
- **Tech Stack:** Java, Python, Swift, Kotlin, Matlab
- **Soft Skills:** Leadership and management, Adaptive, Detail oriented, Organizational experience, Project Management
- **Extracta:** A Browser Extension. Built a translation tool and a browser extension to translate any language stories in context. Used Go for Backend and GORM to manage data storage and retrieval smoothly.
- **SekreAI:** SekreAI is an automated event document generator and administration assistant. The platform allows organizers to input event details to automatically compile structured proposal drafts, financial budgets (RAB), post-event evaluation sheets (LPJ), division job descriptions, preparation health scores, and emergency checklists.
- **Interest:** Project Management, Bussiness Development, Data Analyst, Quality Assurance