



## Bagus Maulana Nugraha

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### ABOUT ME

Final-year Software Engineering student at Fontys University of Applied Sciences with a strong foundation in backend and full-stack development. Passionate about building scalable and efficient web applications using Java (Spring Boot), C# (.NET Core), PHP (Laravel), and React. Experienced in software development, automation, and backend technologies, with a focus on creating reliable and well-structured systems. Seeking a graduation internship in full-stack or backend development to apply technical skills, problem-solving abilities, and teamwork experience while gaining practical experience in developing efficient software solutions and expanding knowledge of industry best practices.

### WORK EXPERIENCE

#### Web Developer Internship

*GamePoint B.V.* [ 19/02/2024 – 18/07/2024 ]

City: Den Haag | Country: Netherlands

- Developed and maintained application features, resolved reported issues and implemented minor updates based on team priorities. Utilized PHP, HTML, CSS, JavaScript, and MySQL/MariaDB, collaborating with developers via GitHub Actions for version control and CI/CD deployment.
- Provided technical clarifications to the QA team when necessary, explaining system behavior and debugging unexpected outcomes.
- Developed an internship project to automate and reduce repetitive developer tasks, using Jenkins for cron jobs, PHP, and MariaDB, improving internal workflows.
- Researched and gathered insights through developer interviews and analysis of third-party APIs, identifying key pain points and proposing new automation tools or improvements to existing ones. All findings were documented to ensure knowledge retention and provide future reference for the development team.

#### Internship – Full Stack Developer

*Faculty of Intelligent Electrical and Informatics Technology of ITS* [ 01/2023 – 10/2023 ]

City: Surabaya | Country: Indonesia

- Collaborated in a team of three, focusing on developing a classroom reservation system for Tower 2 of the Faculty of Technology and Intelligent Computer Science at ITS to streamline room booking and occupancy tracking.
- Worked on both frontend and backend development alongside one teammate, using Laravel (Blade templating), TailwindCSS and the MVC design pattern to build a monolithic web application for managing reservations.
- Integrated automated room occupancy tracking, allowing the system to mark rooms as “free” or “occupied” based on time-based validation and user activity.
- Partnered with another teammate who implemented FastAPI-based people recognition, enabling real-time detection of room usage through camera integration.
- Replaced the manual reservation process handled by helpdesk staff, improving efficiency in room management and reducing administrative workload.
- Findings from the project contributed to a research paper titled “A Classroom Usage Monitoring System with Image Detection for Student Attendance”, presented at the 2nd International Conference on Software Engineering and Information Technology (ICoSEIT) 2024.

## Projects – Full Stack Developer

*Medical Department Student Union Airlangga University* [ 08/2022 – 10/2022 ]

City: Surabaya | Country: Indonesia

- Collaborated with a team of three to develop a Laravel-based web application for the Medical Department Student Union (BEM Kedokteran) at Airlangga University.
- Built both frontend and backend components using Laravel (MVC architecture) and Tailwind CSS, ensuring a structured and maintainable system.
- Developed information management and participant assessment features, allowing administrators and mentors to input student grades and track training progress.
- Designed and implemented assessment modules where students could view their grades and progress in leadership and social skills training.
- Improved training evaluation processes by digitalizing assessments, reducing manual paperwork, and streamlining participant tracking for better accessibility and efficiency.

## EDUCATION AND TRAINING

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### HBO ICT - Software Engineering

*Fontys University of Applied Sciences* [ 09/2023 – Current ]

City: Eindhoven | Country: Netherlands | Website: [fontys.nl](https://fontys.nl) | Field(s) of study: Information and Communication Technologies ; Software and Applications Development and Analysis | Level in EQF: EQF level 6 | NQF Level: 6 | Type of credits: ECTS

- Full-Stack & Scalable Software Development: Designed and built full-stack web applications using Spring Boot, .NET, React, , integrating databases like MySQL, MongoDB, and CockroachDB.
- Software Quality & DevOps: Implemented CI/CD pipelines, automated software release processes, and performed unit, integration, and system testing to ensure software reliability. Gained experience with Docker, Kubernetes, Github Action, GitLab CI, and cloud deployment (GCP).
- Agile & Team Collaboration: Applied SCRUM and Agile methodologies in team projects with external companies, focusing on requirement engineering, stakeholder communication, and project management.
- Security & Cloud-Native Development: Built cloud-native applications with integrated cloud services, following security-by-design principles and GDPR compliance.
- Distributed Data & Architectural Design: Designed scalable and maintainable software architectures, selecting cloud providers, databases, and frameworks based on project needs.
- Problem-Solving & Research: Conducted research-based development, comparing technologies, architectures, and cloud providers to make data-driven decisions in software projects.
- Personal Leadership & Ethics: Took responsibility in solving ICT challenges, ensuring ethical considerations in development (GDPR, Security by Design).
- Cross-Cultural & Stakeholder Communication: Engaged with diverse stakeholders, adapting communication styles for effective collaboration and understanding business processes related to software implementation.
- Entrepreneurial & Future-Oriented Mindset: Developed a self-directed learning approach, continuously improving skills to align with evolving industry trends and software engineering best practices.

### Bachelor Of Informatics/ Sarjana Komputer

*Institut Teknologi Sepuluh Nopember* [ 09/2020 – Current ]

City: Surabaya | Country: Indonesia | Website: [its.ac.id](https://its.ac.id) | Field(s) of study: Informatics | Final grade: 3.44 | Level in EQF: EQF level 6 | NQF Level: S1 | Type of credits: SKS | Number of credits: 154

- Software Development & Programming: Learned OOP, Data Structures, Algorithms, and Software Design, applying them in Java, Python, and PHP (Laravel).
- Web Development & Databases: Built full-stack applications using Laravel (MVC), PHP, HTML, CSS, JavaScript, and managed MySQL/MariaDB databases.
- Artificial Intelligence & Computational Intelligence: Gained foundational knowledge in AI, Machine Learning concepts, and data-driven problem-solving.
- Operating Systems & Networks: Studied OS principles, computer organization, and network programming, focusing on process management and network communication.
- Software Engineering & UI/UX: Developed skills in Requirement Engineering, Software Architecture, Agile Project Management, and UI/UX principles.
- Mathematics & Theoretical Foundations: Applied Linear Algebra, Discrete Mathematics, Probability & Statistics, and Graph Theory to problem-solving in software engineering.

## LANGUAGE SKILLS

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Mother tongue(s): Indonesian

Other language(s): English

## DIGITAL SKILLS

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### Front End Development

React-JS / HTML / Figma / Javascript / Astro Framework / CSS / Tailwind CSS

### Version Control

Git / Github / Gitlab

### Backend Development

Java / Spring Boot / PHP / Laravel FrameWork / C# / .Net Core / Postgresql / MongoDB / CockroachDB / MySQL/MariaDB / RabbitMQ

### DevOps

Kubernetes / Docker