

Fathan Naufal Adhitama

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PROFILE

A final-year Computer Science student with strong interest in Software Engineering and Cloud Computing. Experienced in leading and developing projects, and eager to apply technical skills in real-world environments.

EDUCATION

University of Indonesia | Bachelor of Computer Science

Depok, Indonesia | 2022 – Present

- Current GPA: 3.90 / 4.00

EXPERIENCE

August 2025 - Present

Research Assistant | Machine Learning & Computer Vision Lab Fasilkom UI

Conducted literature review and analyzed state-of-the-art methods for intracranial hemorrhage segmentation from CT scans, collected and curated medical imaging datasets, and performed preprocessing and experimentation. Designed, trained, and evaluated deep learning models for brain hemorrhage segmentation, achieving a Dice score of 0.77, and analyzed model performance using relevant segmentation metrics.

August 2025 - Present

Software Engineer Intern | Badr Interactive

Contributed to the development of AIRISPACS, a web-based PACS system, by building and maintaining frontend features using Vue.js and developing backend functionality through Python plugins in Orthanc. Implemented FastAPI services to serve AI model inference and integrated the Chest X-Ray segmentation model into the PACS workflow. Managed multi-container Docker deployments on remote servers via SSH to support system integration and deployment.

PROJECT

February 2024 – May 2024

Fashion Apparel App

Implemented monitoring using Prometheus and Grafana for real-time system metrics. Set up CI/CD pipelines integrated with SonarCloud for automated static code analysis. Configured Docker-based deployment and deployed the application on a Google Cloud VM

June 2024

B.link

A dynamic full-stack link shortener website with Next.js, delivering fast and efficient URL management

July 2024

Somebuds

a full-stack MERN social media app, applying React Redux for state management and Multer for backend file uploads.

February 2025 – May 2025

Mutari

Developed an itinerary maker app as part of a 6-person team, integrating Google Maps API to retrieve travel destinations across Indonesia. Applied Test-Driven Development (TDD), Agile Scrum, SOLID principles, error monitoring, and CI/CD throughout the development process

SKILLS

- **Programming Language:** Python, Javascript, Typescript, Java, Go
- **Frameworks & Tools:** Google Cloud Platform, Docker, Next.js, Express.js, Nest.js, Django, Figma, Git, PyTorch, HuggingFace
- **Languages:** Indonesian, English

ACHIEVEMENTS

July 2024

Wolfram Award | Garuda Hacks 5.0

Develop an edutech supporting application for funding portal supported by Google's Gemini AI API in a 36-hours hackathon.

ORGANIZATIONS

May 2024 – December 2024

Staff of Business and Partnership Bureau | BEM Fasilkom UI 2023

- Play a key role as a software engineer within the team to fulfill client requests.
- Conduct meetings with clients to discuss requirements for application development.
- Collaborate with the UI/UX team and Project Manager to develop applications.

February 2025 - Present

Web Development Lead | RISTEK Fasilkom UI

- Conducting internal classes for web development members, delivering frontend development training.
- Developing and maintaining an internal product used by 800+ Fasilkom students.
- Assisting in the recruitment process by reviewing applicants' code submissions and conducting technical interviews.

VOLUNTEERS

November 2023 – January 2024

Web Developer | PEMIRA Fasilkom UI 2023

- Developed a responsive and user-friendly front-end web application for the BEM Fasilkom UI Chairman Election, serving 100+ voters.
- Successfully integrated legacy RESTful APIs into new frontend interfaces, ensuring smooth and reliable system performance.
- Implemented web security best practices to maintain the integrity and fairness of the e-voting process.

April 2024 – November 2024

Software Engineer | COMPFEST 16

- Developed and maintained frontend and backend components for an event website with over 20,000 users.
- Participate in weekly scrum and continuously improve on team's performance
- Developing and maintaining robust RESTful API services