

# MUHAMMAD NAUFAL PRATAMA

[mhnpratama@gmail.com](mailto:mhnpratama@gmail.com) · [LinkedIn](#) · [Github](#) · [Medium](#) · [Web](#)

A highly passionate engineer in the technology field with lots of software engineering experience, especially on the Back-end side, with the extra capability of Full-stack, DevOps, and Machine learning-related stuff.

## EXPERIENCES

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### C++ Software Engineer Intern

*Internship*

Nodeflux

August 2022 - December 2022

- Dealing against C++ in an internship as a C++ SWE intern at [Nodeflux](#). Develop two surveillance camera analytic products (PPE detector & Person Re-identification) using Python and Docker, and also implement a dynamically loaded library in C++ for the final project, which is an image classification API.
- Tech: C++, Python, OpenCV, ONNX, Vegeta, Grafana, Prometheus, Docker & Postman

### DevOps/SRE Intern

*Internship*

Fita

June 2022 - August 2022

- Having internship as a DevOps/SRE intern at [Fita \(Telkomsel's subsidiary\)](#) and Contributed to the GCP cloud armor setup and the Helm configuration, created a Terraform dependencies auto updater pipeline using Renovate to minimize the need for changing the dependencies version manually, and also set up a VictoriaMetrics alerting system to help warn the developers when there is a problem.
- Tech: GitLab CI/CD, GCP, Kubernetes, and Helm, Terraform, Grafana, & VictoriaMetrics

### Backend Engineer Course

*Generasi GIGIH 2.0*

Studi Independen Kampus Merdeka

Feb 2022 - July 2022

- Participate as a Backend Engineer and gain much insight into the [Generasi GIGIH 2.0](#) program held by Yayasan Anak Bangsa Bisa (YABB) and developing a trash delivery system as the final project.
- Tech: Ruby, Ruby On Rails & Git

### Fullstack Engineer Intern

*Internship*

UPT Perpustakaan UNDIP

Feb 2022 - June 2022

- Worked eagerly as a full-stack engineer to develop [an automated mail template platform](#) for helping library staff write a formal letter without manually writing it through a word editor, but instead can write on it directly from the web and share the result.
- Tech: HTML, CSS, Bootstrap, PHP, Laravel, Redis, RabbitMQ, Git & Heroku

### IEEE SB-Undip Organization

*Web Division Committee*

Universitas Diponegoro

July 2021 - May 2022

- Initiate and manage [IEEE SB-Undip](#) website using WordPress and coordinate website development training the IWT (IEEE Website Training).
- Tech: WordPress

### Software Defect Prediction Research

*University Research*

Universitas Diponegoro

March 2021 - October 2021

- Research and explore in-depth about defects in software using machine learning and deep learning algorithms such as CNN, LSTM, and Random Forest from the experiments until the [paper publications](#). Found out that a simple Random forest algorithm can handle this problem effectively.
- Tech: Python, Keras, NumPy, Git, Machine learning & Deep learning

### Backend Engineer Mulo

*Part-time Backend Engineer*

Mulo, Wonosobo

Feb 2021 - Aug 2022

- Contribute to both developing from scratch the backend API, using SailsJS and also the [android app](#), using Kotlin for [Mulo](#) while also handle the documentation and software artefact. Mulo is a startup company that uses blockchain technology to empower UMKM in Indonesia by providing an application to help manage UMKM activities and finances.
- Tech: NodeJS, SailsJS, Kotlin, PostgreSQL, Insomnia, Git & Heroku

### Backend Engineer Intern

Azura Labs, Semarang

*Internship*

Jan 2021 - Mar 2021

- Develop backend REST API using Laravel for a web-based project called 'Butiko', which contains articles and activities carried out by the '[Butiko](#)' community.
- Tech: PHP, Laravel, MySQL, Insomnia & Git

### Lab Assistant

Universitas Diponegoro

*Fundamental of Programming Lab Assistant*

Aug 2020 - Des 2020

- Educate and enlighten students about the fundamentals of functional programming using Python.
- Tech: Python

## EDUCATION

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### Universitas Diponegoro

Semarang, Jawa Tengah

Majoring in **Informatics** *GPA: 3.86 out of 4.00*

2019 - September 2023 (Expected)

Taking a specialization in software engineering

## PROJECTS

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### COBLOS *Laravel, Bootstrap, Git*

[COBLOS](#)

Contribute as the backend programmer in developing a survey web-based application that helps companies or individuals manage their surveys.

### Siperpus *Laravel, SailsJS, Bootstrap, Git*

[siperpus](#) | [API](#)

Give an extraordinary contribution as the backend programmer for this project and great teamwork. Siperpus is a library management system developed using Laravel.

### Anforom 2021 *Laravel, JavaScript, Github*

[Anforcom](#)

Took charge as a backend programmer in creating, developing, and maintaining Anforcom's website, which is a competition and seminar that is held annually by the HMIF Undip.

## SKILLS

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- Hard Skills: C, C++, Rust, Python, PHP, JavaScript, SQL, Laravel, NodeJS, Postman, Heroku, Redis, RabbitMQ, Docker, Kubernetes, Helm, Terraform, GitLab CI/CD, Grafana, Prometheus, CMake, Vegeta.
- Soft Skills: Analytical & critical thinking, supportiveness, patience and time management.