



FIRLY TAUFIKUROHMAN

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Jl. Caringin No 301, 40222, Bandung

I am a fresh graduate from Institut Teknologi Nasional Bandung, specializing in Software Engineering and Deep Learning. I am highly enthusiastic about Backend Development and have experience in developing and implementing various projects, including software engineering, IoT, and deep learning. I am eager to find opportunities to grow and contribute to impactful projects and teams at your company.

Work Experiences

Institut Teknologi Nasional Bandung - Bandung, Indonesia

Jul 2020 - Dec 2020

Computer Organization and Architecture Laboratory Assistant

- Contributed as a lecturer in the Computer Architecture and Organization Laboratory
- Led the learning process and guided 30+ students in mastering basic C++ language, particularly as utilized in Arduino
- Taught 12 sessions on utilizing Arduino for implementing basic IoT systems
- Assisted 30+ students in finding solutions for project problems
- Evaluated student progress and comprehension through semester and final exams.

PT. Telkom Akses - Bandung, Indonesia

Jul 2021 - Sep 2021

Fullstack Developer

- Contributed to improving the monitoring of 100+ company data entries by integrating Excel data into a web system and database management system using the PHP Spreadsheet library
- Implemented a filing system for the Golive program to enhance data monitoring within the Golive program module
- Created 2 Curve S dashboard view in the Curve S Project using Chart.js
- Participated in 3 features, including the Golive program, SDI Regional, and the Curve S Project.

Institut Teknologi Nasional Bandung - Bandung, Indonesia

Jul 2021 - Dec 2021

Multimedia Engineering Lab Assistant

- Created 3 interactive learning modules including Synchronous module, Asynchronous module, and their combination using Adobe Animate.
- Developed an Interactive Learning Website to host the instructional videos and modules using HTML, JavaScript, and the Tailwind CSS framework.
- Created 3 interactive and non-interactive videos, including modules and video bumpers.
- Contributed to the creation of 3 multimedia engineering laboratory modules in the Kampus Merdeka.
- Assisted 30+ students in finding solutions for project problems.

Institut Teknologi Nasional Bandung - Bandung, Indonesia

Jul 2022 - Dec 2022

Internet Of Things Laboratory Assistant

- Explored the use of ESP32 in implementing the Internet of Things across 3 types projects.
- Guided student teams in developing IoT projects, such as Smart Trash Bins, from initiation to prototype.
- Created 6+ modules outlining the steps for developing IoT projects.
- Provided evaluations for 5+ team projects in various classes.

Blazer Indonesia Club - Indonesia

Nov 2022 - Feb 2023

Backend Developer

- Created 3 API features for the marketplace system, including registration, transaction handling, and member dues management
- Fixed the CMS registration flow to ensure it matches the API, including addressing other related bugs and issues
- Implemented delivery services using the third-party API Raja Ongkir
- Implemented additional features, including a news filter, product BIC view, address endpoint, shop endpoint, and a cart system
- Implemented payment gateway using Xendit

Institut Teknologi Nasional Bandung - Bandung, Indonesia

Feb 2023 - Jul 2023

Game Programming Laboratory Assistant

- Assisted 60+ students in finding solutions for project problems
- Guided 30+ students in utilizing the Unity Engine and mastering the basics of the C# language.
- Provided assessments for 6+ game projects created by groups in the class.
- Served as a lab assistant for the Game Programming course, facilitating hands-on learning and technical support for students.
- Conducted 14 sessions on game development techniques and tools used in the Game Programming lab.
- Monitored and evaluated students' performance in lab sessions, providing constructive feedback and recommending improvements to enhance their game development skills.

Education Level

SMAN 18 Bandung - Indonesia

Sep 2015 - Sep 2018

High School Diploma in Mathematics and Natural Sciences

- Selected as one of 3 students to represent SMAN 18 Bandung in the regional qualification round of the Mathematics Olympiad in Bandung 2016

Institut Teknologi Nasional Bandung - Bandung, Indonesia

Sep 2018 - Oct 2023

Bachelor Degree in Informatics Engineering, 3.78/4.00

- Served as a teaching assistant for the Advanced Algorithms course for 1 semester
- Worked as a lab assistant 4 times for the courses Computer Organization, Multimedia Engineering, IoT, and Game Programming
- Achieved an A grade in the student exchange program at Institut Teknologi Padang in the Introduction to Technopreneurship course
- Selected as the team leader for the Community Service Program (PKM) at Itenas in 2022 and awarded a grant

Organisational Experience

Himpunan Mahasiswa Informatika (HMIF) - Indonesia

Sep 2018 - Dec 2019

Member

- Contributed as a team member of the Medical Division during the industrial visit event in 2018
- Part of the parade team for the graduation ceremony in 2019.

Skills

- **Skills:** Programming(Intermediate), SQL and NoSQL, Problem Solving, Critical Thinking, Communication.
- **Programming Language:** Node Js, PHP, Python, C#
- **Frameworks:** Express js, Codeigniter, Flask
- **Database:** MySQL, MongoDB
- **API Documentation:** Swagger, Postman
- **Authentication:** JSON Web Token