



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 <i>High School Diploma in Mathematics and Natural Sciences</i> <ul style="list-style-type: none">Selected as one of 3 students to represent SMAN 18 Bandung in the regional qualification round of the Mathematics Olympiad in Bandung 2016	Sep 2015 - Sep 2018
Institut Teknologi Nasional Bandung - Bandung, Indonesia <i>Bachelor Degree in Informatics Engineering, 3.78/4.00</i> <ul style="list-style-type: none">Served as a teaching assistant for the Advanced Algorithms course for 1 semesterWorked as a lab assistant 4 times for the courses Computer Organization, Multimedia Engineering, IoT, and Game ProgrammingAchieved an A grade in the student exchange program at Institut Teknologi Padang in the Introduction to Technopreneurship courseSelected as the team leader for the Community Service Program (PKM) at Itenas in 2022 and awarded a grant	Sep 2018 - Oct 2023

Organisational Experience

Himpunan Mahasiswa Informatika (HMIF) - Indonesia <i>Member</i> <ul style="list-style-type: none">Contributed as a team member of the Medical Division during the industrial visit event in 2018Part of the parade team for the graduation ceremony in 2019.	Sep 2018 - Dec 2019
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Course & Certification, Skills

- Memulai Pemrograman dengan Python** (2023): Python Programming Language Basic
- Belajar Visualisasi Data** (2023): Visualization Data Python Using Pandas
- Belajar Machine Learning untuk Pemula** (2023): Created Pre-trained model to classification rock, scissors, paper
- Belajar Dasar Pemrograman Javascript** (2024): Javascript Programming Language Basic
- Belajar Dasar AWS Cloud** (2024): Learned AWS basic cloud
- Belajar Membuat Aplikasi Back-End untuk Pemula** (2024): Created a simple notes API CRUD using Hapi framework
- 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
- Authentication:** JSON Web Token
- API Documentation:** Swagger, Postman