

# Natasya Zahra

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South Tangerang, Indonesia

## EDUCATION

### UNIVERSITY OF INDONESIA

#### Bachelor of Computer Science

GPA 3.75/4.00. *Cum Laude*.

Depok

August 2019 – August 2023

## WORK EXPERIENCE

### TELKOMSEL, PT. TELEKOMUNIKASI SELULAR

Jakarta

#### Data Science Intern

August 2022 – December 2022

- Performed data preprocessing such as text cleaning, normalization, stemming, slang and stop word removal upon 30,000 open-ended-answers data to provide model input, utilizing Python.
- Developed, trained, and evaluated BERTopic topic modelling model as natural language processing (NLP) technique, gained a c\_v coherence score of 0.6 out of 1.0.
- Defined data pipeline and integrated trained model with MLFlow for better model management.
- Analysed 3 public dataset and composed interactive Tableau dashboard to provide insight with data visualization to relevant stakeholders.

### FACULTY OF COMPUTER SCIENCE, UNIVERSITY OF INDONESIA

Depok

#### Teaching Assistant

January 2022 – June 2023

Courses: Human Computer Interaction, Computer Network, Language Theory and Automata

- Compiled and assisted with grading assignments and exams of 50 students, monitored and provided feedback of student progress.
- Collaborated with other teaching assistant in collecting attendance and facilitated additional assistance class as needed.

### KAMPUS INDONESIA, PT. INSPIRASI MANDIRI NUSANTARA

Remote

#### Front-End Developer Intern

April 2021 – July 2021

- Setup, standardized, and configured design system for components in Vue.js
- Implemented web interface components according to provided UI/UX design in Figma.
- Collaborated with back-end developers to integrate the API into web interfaces.

## PROJECTS

### EVENT-DRIVEN EARLY EARTHQUAKE DETECTION SYSTEM

Remote

#### Research Assitant

July 2023 – September 2023

- Improved data pipeline for earthquake prediction, utilizing event-driven architecture with Kafka.
- Implemented stream processing with Python-based Spark (PySpark) script to run prediction model and gained predicted result within 3 seconds for 750 seismic data per second.
- Established services using Docker images in Google Cloud Platform virtual machines.

### SCHOLARSHIPS WEB SCRAPPING

Remote

#### Research Assistant

July 2023 – August 2023

- Programmed 12 scripts to scrap static page contains scholarship information of undergraduate, master, or doctoral scholarship using BeautifulSoup library in Python programming language.

### MAHONI SMART CITY APPLICATION

Depok

#### Developer / Back-End Engineer

January 2023 – June 2023

- Conducted interview and Kano Analysis to collect requirements based on user needs.
- Designed, implemented, and tested 4 backend service in microservice architecture including database storage system and API endpoint using Java in Spring Project.
- Integrated and performed 140 end-to-end HTTP call test cases using Postman.

## ORGANIZATION EXPERIENCE

### **RISTEK FASILKOM UI**

Depok

#### **Public Relation Department Member**

April 2021 – February 2022

- Acted as a liaison within the team to facilitate communication with clients and contribute to the development of organizational projects.
- Created various posters for content in social media such as Line, Twitter, and Instagram.

### **FUKI FASILKOM UI**

Depok

#### **Social and Community Department Member**

February 2020 – February 2021

- Planned, produced, and evaluated monthly Islamic content program for the benefit of members and the community.
- Assisted public relation and collaborated with other departments to ensure meet the overall goals and programs of the organization.

## COMMITTEE EXPERIENCE

### **BETIS FASILKOM UI**

Depok

#### **Vice Person in Charge of Academic**

December 2020 – June 2021

- Directed a team of 6 academic staff academic staff and managed 74 course teachers, ensuring work results are in accordance with performance objectives.
- Composed 12 high school course's curriculum and resources, collaborated with student mentors and web developers to deliver engaging educational content.

### **EDUCARE FASILKOM UI**

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#### **Vice Person in Charge of Documentation**

December 2020 – May 2021

- Led and managed a team of 5 people as a documentation team, developed and executed a content branding strategy to ensure the highest quality documentation.
- Arranged work plans, created content branding videos, and oversaw live report documentation of events in image and video format.

### **COMPFEST 12**

Depok

#### **Visual Designer**

February 2020 – November 2020

- Utilized Figma to designed more than 50 posters and regular contents across social networks with 23.000 followers combined.
- Collaborated with 3-person in team to create Compfest clothing brand Instagram account layout and multiple UI/UX assets for Compfest's website.

## TECHNICAL SKILLS

- **Programming:** Python, Java, HTML/CSS/JavaScript.
- **Libraries:** Django, FastAPI, Spring Boot, ReactJS Spark, Pandas, Jupyter, Kedro, MLFlow, Kafka.
- **Databases:** PostgreSQL, MongoDB, InfluxDB, Firebase.
- **Tools:** Git, Docker, Postman, Tableau, Microsoft Office (Word, PowerPoint, Excel).
- **Cloud:** Google Cloud Platform.
- **Operating Systems:** Windows and Linux.
- **Creative and Design:** Figma, Adobe Illustrator, Canva, Vegas Pro.

## OTHERS

- **Award:** Finalist of Smart City Competition in GEMASTIK XIV 2021.
- **Language:** Fluent Indonesian and Conversational English.
- **Interests:** Open-world games, traditional and digital art.