FAISHAL ZHARFAN

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OBJECTIVE

A fourth year (8th semester) student majoring in Telecommunication Engineering who is interested in Video Processing, Networking, and Cloud Computing. He is eager to learn and likes challenges. Looking for an internship whose fields are mainly focused in Multimedia Systems and Computer Networking

EDUCATION

Bandung Institute of Technology *July 2019 - Present*
Bachelor of Engineering Overall GPA: 3.70/4
School of Electrical Engineering and Informatics
Telecommunication Engineering

University of Zagreb *Feb 2022 - Jul 2022*
Exchange Student
Faculty of Electrical Engineering and Computing
Electrical Engineering and Information Technology

TECHNICAL STRENGTHS

Computer Languages	Python, C, C++, Bash, MATLAB/GNU Octave
Software & Tools	Linux, HTML, CSS, LaTeX, Excel, HFSS
Languages	Indonesia (Native), Sundanese (Native), English (Advanced)

EXPERIENCES

University of Chicago Oct 2022 - Present
Undergraduate Research Assistant

· Working remotely as an undergraduate research assistant advising by Prof. Junchen Jiang and Prof. Haryadi Gunawi under UCARE Lab. The topic that I'm currently working on is "Efficient Resource Sharing for Edge Video Analytics"

· Currently working on implementing "accuracy gradient" on a resource manager and testing several baselines to compare the performance

Bandung Institute of Technology Apr 2022 - Dec 2022
Undergraduate Research Assistant

· Research assistant of IC Design Lab ITB with research topic in "Deep Learning-Based Physical Layer for Machine-to-Machine Communications in 5G Era"

· Performing Simulation using Matlab and doing some studies about 5G as well as AI

Bandung Institute of Technology Aug 2021 - Dec 2021
Teaching Assistant

· Teaching assistant for Programming Course (ET2107) using python3 programming language

· Graded 36 students exams and exercises

· Taught basic data structures and python3 language itself

PROJECTS

ESI Filter   Aug 2021 - Jan 2022
- Designed a bandstop filter that capables to attenuate at 3.2 - 3.7 GHz using Rogers material
- Performed simulation using HFSS and measurement using VNA

Water Quality Checker System using IoT Principle   Dec 2021 - Feb 2022
- Designed an IoT system using Arduino Uno that can send notification through a gsm module if the turbidity and ph are at certain level
- My job was mainly focused on integrating the code to the system

ACTIVITIES

Huawei Seeds for The Future 2022   Aug 2022
Indonesia Representative
- I was the one of 10 Indonesia delegates to attend Huawei Seeds for The Future 2022 in Thailand
- Huawei Seeds for The Future is a Huawei's annual event for students around the world to train them in the most advanced digital technologies such as AI, Cloud Computing, 5G, etc
- Not only did we learn about tech, but also we could learn about the Thailand culture and visited its heritage sites

ACHIEVEMENTS

Third Winner - Huawei ICT Competition on Network Track at Global Level (2023)

Second Winner - Huawei ICT Competition on Network Track at Regional (Asia-Pacific) Level (2023)

First Winner - Huawei ICT Competition on Network Track at National Level (2022)

Honorable Mention - Huawei ICT Competition on Cloud Track at Campus Level (2020)

Scholarship Awardee - Erasmus+ International Credit Mobility (2022)

Scholarship Awardee - Electrical Engineering Alumni Association (2022)

PUBLICATIONS

Comparison of Caching Replacement Policies in Changing the Number of Interest Packets on Named Data Networks Using Mininet-NDN   2021
Faishal Zharfan, Larastya Devindira Hasnaa, Nana Rachmana Syambas, Ridha Muldina Negara
15th International Conference on Telecommunication Systems, Services, and Applications (TSSA)

Modelling of Wireless OFDM System with Deep Learning-based Modulation Detection
2022
Rahmat Mulyawan, Faishal Zharfan, Muhamad Rizki Nur Rahman, Infall Syafalni, Nana Sutisna, Trio Adiono
2022 International Symposium on Electronics and Smart Devices (ISESD)

CERTIFICATES

Huawei Certified ICT Associate : Datacom (2022-2025)

Huawei Certified ICT Associate : Cloud Service (2020-2023)

Cisco Cybersecurity Essentials (2020 - no expiration date)

Duolingo English Test : 125 out of 160 (C1/Advanced)

RELEVANT COURSES

Core Courses
Multimedia Systems - A
Artificial Intelligence & Big Data - A
Computer Networks I & II - A
Discrete-Time Signal Processing - A
Advanced Programming - A

Other Courses
Calculus I & II - A
Discrete Mathematics - A
Probability and Statistics - AB
Information Theory - on going
Communication Systems - A