Rizky Ramadhana P. K.

Availability: anytime between May 10th and August 29th

J +1-(540)-553-1704

ℰ LeetCode Profile

➤ rizky@vt.edu

☐ Rizky Ramadhana

EDUCATION

Master of Science in Computer Science

2024-26

Virginia Tech, US

Research Interest: Programmable Network for Security, P4 (advised by Prof. Peng Gao)

•Bachelor of Science in Informatics (#1 Engineering School in Indonesia)

2020-24

 $Bandung\ Institute\ of\ Technology,\ Indonesia$

GPA: 3.93/4.00

Final Project: Large Language Model-Based Testing for Cross-Site Scripting Vulnerabilities

WORKING EXPERIENCE

•Kurasi Media Nusantara

Jan - Jul 2024

NLP Engineer Intern (Python, FastAPI, BERT)

Bandung, Indonesia

- Designed and deployed a BERT-based model for extracting quotes and topics using FastAPI
- Enhanced system efficiency by implementing variable caching, achieving a 10x reduction in runtime

•Sayurbox (Top 3 E-groceries in Indonesia)

Aug - Nov 2021

Data Engineer Intern (Python, BigQuery, Airflow)

Remote

- Applied ETL from/to BigQuery, MySQL Databases, Google Sheets
- Implemented a directed acyclic graph pipeline using Airflow

•Bukit Vista Hospitality

Jan - Apr 2021

Data Scientist Intern (SQL, Tableau, Redash)

Remote

- Scraped apartment and hotel listings to analyze price statistics, enabling reasonable pricing for specific areas
- Pulled data from MySQL databases and visualized it with Redash and Tableau

RESEARCH EXPERIENCE

•International Research Collaboration on Tackling Cancellation and Retry Bugs

Nov 2022-23

Research Collaborator (Java, Maven, JUnit, Mockito, Hive)

Remote

- Collaborated with Prof. Shan Lu of University of Chicago and her PhD student Bogdan Alexandru Stoica
- Developed an automated way to count the test coverage of retry bug in Hive and HBase
- Integrated fault injection tool and listener to JUnit and Maven Surefire Plugin

Padjajaran University - Graduate School of International Relation

Jan - March 2022 Bandung, Indonesia

Research Collaborator (Python)

- Scraped 500,000++ articles on the three biggest news platform in Indonesia
- Ran the scraper in AWS EC2
- Introduced a trend analysis on keywords and entity based on experts knowledge

Honors and Awards

•Runner Up GEMASTIK 2022

Ranked 4th out of 200 teams

- The most prestigious data mining competition in Indonesia, held by Indonesia Ministry of Education
- Developed an outbreak early warning system leveraging anomaly detection in keyword search trends

•1st place Datathon 2021 by Indonesia National Research Agency

Out of 182 teams

- Forecasted mobility restriction relaxation in Indonesia during COVID-19 using ARIMA, time-series analysis algorithm
- Analyzed the optimal in-office work proportion during COVID-19 using polynomial regression

•Silver Medalist European Physics Olympiad 2020

- One of five students that represent Indonesia (selected from 53 students)
- Ranked 28th out of 260 participants from 53 countries
- More information here https://eupho.ee/eupho-2020/

TECHNICAL SKILLS AND INTERESTS

Languages: Python, Java, Javascript, C/C++, Bash Scripting, HTML+CSS+SQL

Libraries: Transformers, Pandas, PyTorch, NumPy

Tools: GCP, AWS EC2, AWS RDS, BigQuery, Airflow, Redash, Tableau

Areas of Interest: Machine Learning, Software Engineering

Aug - 1100 20

•Nusantara Study Club

Aug - Dec 23 (expected)

Director Bandung

- Coordinating private course for junior high school students preparing for high school entrance examination
- Coordinating 5+ tutors from top 3 unis in Indonesia and 10+ students with IDR 100+ million in revenue

•ARKAVIDIA 2023: Annual Tech Competitions by HMIF ITB

Sep 22 - Feb 23

Head of Data Science Competition

Bandung

- Led a group of 10 peoples to held annual data science competition
- Generated highest participant (100+) and highest revenue (IDR 5+ million) compared to other three competitions

•SMA Taruna Nusantara Alumni Association

Aug 21-22

Head of Bandung Region

Bandung

- Led one of the biggest alumni association in Indonesia with 100+ regional members
- Increased participation and competence of members by holding monthly gathering and sharing session

Portofolio (Linktre.ee/rizkyramadhana26)

•Image Compression with K-Means Clustering

Lowered image size by reducing the color space

- Implemented K-Means algorithm in python from scratch
- Used numpy for fast matrix operation

•Fruit Image Classification

Classify an image into the name of the fruit and its condition (good/bad)

- Used CNN with Tensorflow using similar architecture as ImageNet to classify the images into 12 classes
- Compared the ImageNet architecture to much simpler architecture and achieved 0.8+ accuracy