Muhammad Alif Putra Yasa

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Education

Institut Teknologi Bandung   **Oct 2024**
Bachelor of Engineering in Informatics Engineering
GPA: 3.55

Experience

Distributed Systems Lab Assistant | Institut Teknologi Bandung   **Aug 2022 - Now**
- Designed and wrote lab work questions covering topics such as Bitwise Operation, Assembly Language, and Buffer Overflow, ensuring that they were clear, concise, and accurately reflected the course material.
- Utilized Amazon Lightsail to implement a streamlined grading system, reducing grading time and improving accuracy.
- Contributed to the continuous improvement of the course by providing feedback on lab assignments, identifying areas for improvement, and suggesting new topics for future labs.

Staff of Competition and Community Division | HMIF ITB   **Aug 2022 - Now**
- Write articles on Machine Learning algorithms to promote knowledge sharing and education within the HMIF community.
- Manage and assist in the development of HMIF's Data Science community through organizing events, workshops, and other initiatives.
- Collaborate with team members to create and execute successful events and initiatives.

Projects

Reddit Comment Archiver   **Docker, AWS, Python**
- A Docker-based application utilizing AWS services, including SES, Fargate, and Lambda.
- Designed and implemented a periodic archiving system to capture and store Reddit comments on a scheduled basis.
- Utilized AWS SES to send email notifications to designated recipients with details of the archived comments.
- Leveraged AWS Fargate to run the containerized application, enabling easy deployment, scalability, and management.

Peduli Pantaiku   **Python, SQL, Git, Docker**
- Developed a desktop application using Python to create a forum for sharing beach cleaning activities.
- Implemented a Continuous Integration/Continuous Deployment (CI/CD) pipeline to automate the build, test, and deployment process.
- Utilized a Dockerized database in the testing environment to simulate real-world conditions and improve test coverage.

TCP Implementation   **Python**
- Designed and implemented a TCP-like protocol for reliable file transfer between a server and a client.
- Utilized UDP as the underlying transport protocol for transmitting data.
- Applied TCP principles such as congestion control, flow control, and error detection and correction mechanisms to ensure reliable delivery of data.

Network Traffic Visualizer   **Linux, Python, Bash**
- Successfully developed a network traffic visualizer that provides valuable insights into network traffic patterns and usage.
- Utilized Python and Bash to capture network traffic data and Matplotlib to visualize it.

Dots and Boxes Artificial Intelligence   **Python**
- Developed an AI agent for the classic game of Dots and Boxes.
- Implemented Simulated Annealing and Minimax algorithms to enable the agent to make intelligent moves during gameplay.

Skills Summary

- Proficient in programming languages such as Python, Java, C, SQL, Typescript, and Bash
- Extensive experience with Amazon Web Services (AWS) and its various services including ECS, Fargate, Lightsail, S3, Lambda, and more.
- Strong knowledge of Docker for containerization and deployment.
- Experienced with version control systems such as Git.
- Proficient in Linux-based operating systems and comfortable working in command line environments.