

# Muhammad Abdullah

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## TECHNICAL SKILLS

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**Languages:** Python, Java, C/C++, SQL, HTML/CSS

**Developer Tools:** VS Code, PyCharm, IntelliJ, Xcode, Git, Github,

**DevOps and Cloud:** AWS (EC2, S3, VPC, Lambda, Cloudshell), Linux, Jenkins, Docker

## PROJECTS

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**CI/CD Pipeline Setup** | *Jenkins, AWS EC2, GitHub, Docker*

March 2025

- Set up a basic CI/CD pipeline using Jenkins to automate the build process for a Java application.
- Configured GitHub webhooks to trigger Jenkins jobs automatically on each commit, enabling continuous integration.
- Used Docker and Docker Compose to containerize the Java application and automate the build and deployment process.

**Hosting a Static Web Application** | *AWS, EC2, Nginx, Linux, SSH, HTML/CSS, JavaScript*

February 2025

- Deployed a static web application on AWS EC2 with an Nginx web server running on Linux and established SSH access and optimized server security.
- Configured Nginx for secure and scalable hosting, enabling efficient web file serving.

**Federated Learning Systems** | *Python, Machine Learning*

April 2024

- Inducing data poisoning attacks by maliciously generated synthetic images using a GAN
- Working on developing a server side defense strategy to mitigate the effects of the data poisoning attacks on FL systems

**Stock Management System** | *Python, MySQL*

January 2023

- Developed a Application to scrape stock info from stock websites and store it in the database
- The stock data was scraped using the cloudscraper module in python and other libraries like requests, bs4 etc.
- All data will be stored in a MySQL database which is connected to python by mysql.connector

## PUBLICATIONS

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**Label Flipping Attacks on Federated Learning: GAN-Based Poisoning and Countermeasures**

2024

Muhammad Abdullah, Vidhatri Babu, Akash KA, Abdul Mannan Khan, M S Bhargavi

- The research paper was presented at the 2nd IEEE International Conference on Data Science and Network Security (ICDSNS) 2024, and published by IEEE as a conference paper.
- The paper explores vulnerabilities in federated learning systems, specifically label-flipping attacks affecting global model accuracy and the security challenges faced.

## EDUCATION

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**BANGALORE INSTITUTE OF TECHNOLOGY**

*BACHELOR OF ENGINEERING IN COMPUTER SCIENCE*

CGPA-8

2020 – 2024

**Bangalore International Academy**

*ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION (CBSE)*

84%

2018 – 2020

**Christ School ICSE**

*INDIAN CERTIFICATE OF SECONDARY EDUCATION EXAMINATION (ICSE)*

85%

2018