

# AQEELA NASHWA NAYSILLA

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<https://aqeela-e.github.io/portofolio/>

## PROFILE

Aqeela (20) is a 2nd-year Informatics student at Pignatelli Triputra University with strong proficiency in **Python programming and experience in Machine Learning and Full-Stack Development**, complemented by strong **analytical thinking, problem-solving, project management, and leadership skills**. Possessing a proven ability to rapidly master and apply new technologies to solve complex problems, Aqeela has successfully delivered multiple projects across **academic research, freelance development, and community service** over the past year. Notable achievements include **publishing a journal paper on data security, delivering 10+ programming projects, and developing a functional web application for local SMEs**. Aqeela is proficient in **Python, TensorFlow, Laravel, SQL, Git, Docker, and Postman**.

## EDUCATION LEVEL

### Undergraduate Informatics, Pignatelli Triputra University

Aug 2023 - Present

- **GPA: 3.60 / 4.00**
- **Courses:** data science, artificial intelligence, client-server web programming, machine learning

## WORK EXPERIENCE

### Academic Freelance Assistant | Self-Employed

Dec 2023 - Present

- **Completed 20+ programming** assignments and academic tasks for university students, maintaining 100% client satisfaction rate
- Developed web applications and logical scripts to **solve academic problems**, ensuring clean and maintainable code structure
- Provided detailed technical explanations that **helped clients** understand underlying concepts and improve their comprehension
- **Managed 3-5 concurrent projects** while maintaining consistent on-time delivery for all assignments

## COURSES & TRAININGS EXPERIENCE

### Cybersecurity Fundamentals Training (6 Hours)

19 Nov 2024

### Introduction to Cybersecurity | Kominfo & Cisco Networking Academy

- Mastered 4 key cybersecurity domains: attacks/concepts, data privacy, organizational protection, and career paths
- Applied security principles to protect against **real-world threats in simulated** environments

### Artificial Intelligence Engineering Program

2 Oct 2025 - Present

### AI Engineer Track| IDCamp 2025 by Dicoding x Indosat

- Completed fundamental AI courses with **overall 90% score** on all quizzes and assignments
- Built basic machine learning models using **Python, mastering data preprocessing and model evaluation techniques**

### Cloud Computing & Generative AI Program

21 Aug 2025 - Present

### AWS Back-End Academy | Dicoding x AWS

- Mastered AWS cloud fundamentals including EC2, S3, and Lambda, achieving **95% overall score** on all course assessments
- Developed backend applications using **JavaScript and Node.js**, implementing cloud services and basic generative AI concepts

## PROJECT EXPERIENCE

### Hybrid Cryptography Research Project

May 2025 - Nov 2025

### Security Developer | SmartNotes Web Application

- Engineered **client-side hybrid encryption** (RC4 + XChaCha20) securing 7 datasets of text and images with 100% data integrity
- Optimized cryptographic operations achieving 1.5s encryption and 20.20s decryption times across file sizes (100KB - 1.5MB)
- Eliminated server dependencies through full client-side execution, preventing data exposure during transmission
- Contributed to research paper **published in SINTA 5-accredited journal** detailing the security implementation

Link project: <https://aqeela-e.github.io/secure-notes/>

### Community Service & Digital Marketing Project (PKM)

May 2025 - Nov 2025

### Full-Stack Developer | Griyasingkong E-Commerce Platform

- **Developed Laravel-based** digital marketing platform to increase sales for local SME, resulting in measurable growth in customer inquiries and orders
- Implemented product showcase featuring 15+ signature singkong products with integrated contact system for direct customer engagement
- Built dedicated admin dashboard enabling real-time product management and partnership collaboration
- Optimized website performance achieving 1.5s load time to enhance user experience and support sales conversion

**Link project:** <https://griyasingkong.com/>

**University Research & Community Service Project**

*Dec 2024*

**Research Assistant - Virtual Visit Feature | Museum Keris Nusantara**

- **Selected as student developer** to create the museum's first 3D virtual visit feature, addressing the lack of digital visualization tools
- Developed interactive virtual tour handling 3D keris models with 360-degree visualization capability
- Optimized system performance through image compression and lazy loading, reducing loading time by 40%
- Collaborated with museum curators and lecturers to ensure historical accuracy in digital representations

**Link coverage:** <https://rri.co.id/daerah/1219587/museum-keris-nusantara-luncurkan-fitur-virtual-visit>

**Capstone Project - End-to-End Development**

*June 2025 - Dec 2025*

**ML Engineer & Project Lead | IoT CVD Disease Prediction System**

- Spearheaded development of real-time health monitoring **system integrating heart rate sensors** with **ML pipeline**
- Architected ensemble **ML model processing sensor data** streams for cardiovascular risk prediction
- Engineered medical diagnostic features and implemented urgency classification system
- Delivered complete **system from IoT data acquisition to web-based** prediction interface

**Link project:** <https://github.com/ageela-e/system-prexa>

**ORGANISATIONAL EXPERIENCE**

**LEADERSHIP EXPERIENCE**

*Aug 2024 - Present*

**Class President | Student Leadership Role**

- Led class governance and represented student interests in academic planning committees
- Established inter-departmental learning sessions that improved cross-functional student collaboration
- Mediated student-faculty communications, resolving academic concerns and enhancing educational experience
- Optimized faculty-student coordination, improving academic support systems

**SKILL & QUALIFICATIONS**

**Hard Skill:**

- Programming & Frameworks: Python, JavaScript, Laravel, SQL, MySQL, RESTful APIs
- Machine Learning & AI: Experienced in building and evaluating models using TensorFlow and Scikit-learn, proficient in data preprocessing, feature engineering, and model evaluation metrics.
- Data & Visualization Tools: Pandas, NumPy, Matplotlib, Seaborn
- Tools & Platforms: Git, Docker, Postman

**Soft Skill:**

- Analytical and Critical Thinking
- Problem Solving and Project Management
- Team Leadership and Collaboration
- Effective Communication and Time Management

**ACHIEVEMENTS**

- Published Research Paper on Hybrid Cryptography in SINTA 5 Journal (2025)
- Selected among applicants as Student Developer for Museum Keris Virtual Visit Project
- Secured PKM Funding (Rp 50M) for SME Digital Platform Development
- Maintained 90%+ Average Score Across 5+ Decoding Certifications
- Led a Team Delivering End-to-End IoT CVD Disease Prediction System