Personal Information
Name: Mooh Ludivine Esther
Location: Busan, Republic of Korea
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Nationality: Togolese
Visa Status: D-2 (Student Visa) - Eligible for E-7 sponsorship after graduation (August 2025)

Education
Pukyong National University, South Korea
Master of Science in Information Security *(Expected August 2025)*

- **GPA:** 4.42/4.5 | **Global Korea Scholarship Recipient**
- **Research Focus:** Post-quantum cryptography, optimizing ML-KEM for constrained environments
- **Key Courses:** Ubiquitous Computing Security, Advanced System Programming, Cryptographic Chip Applications, Data and Algorithms Structure, PKI

La Trobe University, Australia
Graduate Certificate in Cyber Security *(2020 - 2021)*

- Specialization: Network Security, Risk Management, Digital Forensics

University of Nebraska, Omaha, USA
Bachelor of Science in Political Science *(2015 - 2017)*

- **Graduated Cum Laude**

Research Experience
Student Researcher, System Security Lab ***(Sep 2023 - Present)***
Pukyong National University, South Korea

- Optimized ML-KEM (Kyber) for **better memory and performance**.
- Developed **Ascon-based cryptographic primitives** to replace Keccak in ML-KEM.
- Conducted **performance benchmarking** of cryptographic implementations in **IoT environments**.
- Analyzed security properties (**IND-CCA2 proofs, collision resistance**).

Work Experience
Project Manager ***(Jan 2020 - Jan 2022)***
Sauce Site

- Led a team of developers and designers to manage software projects.
- Improved processes for **efficiency and streamlined documentation**.
- Managed **client communications and technical requirements**.

Technical Skills

- **Cryptographic Implementations:** ML-KEM (Kyber), ECC, Ascon, Keccak, PQM4
- **Programming Languages:** C, C++, Python
- **Security & Optimization:** Post-quantum cryptography, memory & performance analysis, IND-CCA2 proofs
- **Development Tools:** Linux, WSL, Git, Docker *(basic familiarity)*
- **Cryptographic Libraries:** OpenSSL, BoringSSL *(basic understanding)*

Publications & Presentations

- **"ECC Accelerator using Faster Montgomery Ladder on FPGA Devices"**
  Busan Cyber Security Conference, 2024
- **"Enhancing ML-KEM Performance using Modular Reduction as Macro"**
  MITA 2024

Languages

- **French & Ewe:** Native
- **English:** Fluent *(TOEFL Certified)*
- **Korean:** Intermediate *(TOPIK Level 3)*
- **Spanish:** Intermediate *(B1 Level)*