LUIS GABRIEL LAGUARDIA

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SUMMARY

Innovative and detail-oriented Software Developer & Cybersecurity Enthusiast with expertise in mobile and web. Passionate about leveraging technology to enhance user experience, optimize security, and drive digital transformation. Seeking opportunities to apply my skills in software development and cybersecurity to build impactful solutions.

WORK EXPERIENCE

Freelance Software Developer   **2023 - Present**

- Developed and deployed web and mobile applications using React, Next.js, and Laravel.
- Integrated RESTful APIs, databases (MySQL, MongoDB), and third-party services.
- Conducted security audits and penetration testing for client applications.
- Conducted network traffic analysis and vulnerability assessments.
- Participated in Capture The Flag (CTF) challenges and ethical hacking modules.
- Implemented secure coding practices in software development projects.

PROJECTS

Facebook & Instagram Clone
- Developed a social media app using Flutter, Express, and MongoDB.
- Implemented authentication, real-time chat, and post interactions.

Diffie-Hellman Key Exchange Chat System
- Implemented end-to-end encryption using Diffie Hellman key exchange.

E-Jeep QR Payment System
- Created a QR-based fare payment system using KivyMD and Python.
- Implemented secure wallet transactions with automatic balance deduction.

EcoTrack – IoT Energy Monitoring System
- Developed an IoT-based energy monitoring and management platform inspired by the Meralco system.
- Built mobile and web applications using Flutter, React, Node.js, and MongoDB.
- Integrated smart plug devices for real-time power tracking, usage history, and cost computation.
- Designed onboarding flows for smart devices with WiFi discovery.
- Added features for energy-saving insights, notifications, and audit logging for system transparency.

EDUCATION

Bachelor of Science in Information Technology   **2022 - Present**

National University - Philippines
- Major in Mobile and Web Applications.
  - Thesis on "Innovations in Sustainable Energy".
- Security Bank Scholar and Taguig City Scholar
- Ayala Young Leaders Organization Candidate
- Microsoft Student Ambassador Program 2024

- Taguig City Scholar
- Security Bank Scholar

ADDITIONAL INFORMATION

Technical Skills: Project Management, Robotics, System Design, Ethical Hacking, DevOps
Programming Languages: Python, Java, JavaScript, C++, SQL, Dart, PHP
Awards & Activities:
- Best App Award #1, National University Manila Techfiesta 2024
- Champion, JPCS Programming Competition (2022)
- Finalist, CoinsPH Hackathon (2023)
- Finalist, Hackfest 2024 - GDSC Ateneo de Manila University
- Finalist, Trend Micro Capture the Flag (2024)
- 4th Placer, International Robotics and Automation Competition (2024)
- Finalist, Kaya Founders Hackathon (2024)
- 2nd and 3rd Placer, Capture the Flag - TIP Quezon City (2025)
- 2nd Placer, Alertong Arduino Hackathon (2025)
- Finalist, Algolympics 2025 - UP Diliman
- Finalist, PacketHacks IoT Conference 2025