RAMNICK FRANCIS RAMOS

INFORMATION SECURITY & SOFTWARE DEVELOPMENT

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EDUCATION

University of the Philippines Los Baños — Los Baños, Laguna
*Bachelor of Science in Computer Science; **GWA: 1.4431/1.00**; Magna cum Laude Standing* — *Aug. 2021 – Dec. 2025*

Philippine Science High School - CALABARZON Region Campus — Batangas City, Batangas
*High School Diploma; **GWA: 1.42/1.00**; Graduated with High Honors* — *July 2015 – May 2021*

EXPERIENCE

Software Development Intern — June 2024 – Aug. 2024
UPLB Computational Interdisciplinary Research Labs (CINTERLABS) — *Los Baños, Laguna, Philippines*
- Developed and refactored dashboards for datasets gathered on 120+ biological profilings on cave ecosystems using MySQL, ExpressJS, ReactJS, and NodeJS.
- Collaborated with the UPLB Museum of Natural History's microbiology researchers, improving interdisciplinary cooperation.

Software Quality Assurance Intern — Aug. 2023
KUMU, INC. — *Remote*
- Utilized Jira to report bugs and issues in a mobile live-streaming application, contributing to smoother sprint releases.
- Performed smoke testing with other interns while following Agile Methodology Principles.

PROJECTS

SEED Laboratory Reports on Cybersecurity | *Bash* — Aug. 2025 – Present
- Produced comprehensive laboratory reports on exploratory simulated environments about Buffer Overflow Attacks, DNS Exploits, Encryptions, Environment SetUID, Public Key Infrastructure, Shellshock Attacks, TCP/IP, Cross-Site Scripting (XSS).
- Performed penetration testings and in-depth analysis on malwares using Ubuntu and Linux's Command Line.
- Made documentations on the analysis and provided suggestions and insights regarding improving Information Security.

BatSeq | *MySQL, ExpressJS, ReactJS, NodeJS* — Jan. 2025 – Dec. 2025
- Developed a web-based database management system that incorporates bioinformatics tools for the nucleotide dataset of the Museum of Natural History of the University of the Philippines Los Banos.
- Designed and developed the database schema and its corresponding API endpoints for microbial data.

BRICS -Booking and Reservation for Institute of Computer Science | *ReactJS, NodeJS, ExpressJS, MongoDB* — Feb. 2024 – May 2024
- Worked for the frontend development team to create a room reservation system for the Institute of Computer Science - UPLB.
- Developed the user interface using ReactJS and Material UI in collaboration with the UI/UX team.
- Collaborated with backend team to coordinate the API endpoints of the database schema using NodeJS and ExpressJS with the frontend.

TECHNICAL SKILLS

Languages: Assembly, Bash, Python, JavaScript, C, Java, SQL, HTML
Frameworks: Metasploit, Docker, ReactJS, ExpressJS, NodeJS, Flutter
Developer Tools: Wireshark, VS Code, Oracle VirtualBox, Figma, Git, GitHub
Libraries: Scapy, Nmap, Material UI, seqviz, blastJS, phylotreeJS

AFFILIATIONS

Developer for Logistics and Public Affairs, Alliance of Computer Science Students (ACSS) - UPLB — Dec. 2021 – Present
Non-Commissioned Cadet Officer, UPLB ROTC - Corps of Cadets — Nov. 2021 – May 2022

HONORS & AWARDS

Candidate for Magna cum Laude, University of the Philippines Los Baños — Dec. 2025
Recipient, Department of Science and Technology - Science Education Institute Merit Scholarship — Aug. 2021 – Dec. 2025
Inductee, Phi Kappa Phi International Honor Society — July 2024