

Ramnack Francis Ramos

Information Security & Software Development

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EDUCATION

University of the Philippines Los Baños

Bachelor of Science in Computer Science; GWA: 1.4431; Candidate for Magna cum Laude

Los Baños, Laguna

Aug. 2021 – Dec. 2025

Philippine Science High School - CALABARZON Region Campus

High School Diploma; GWA: 1.42; Graduated with High Honors

Batangas City, Batangas

July 2015 – May 2021

EXPERIENCE

Software Development Intern

UPLB Computational Interdisciplinary Research Labs (CINTERLABS)

June 2024 – Aug. 2024

Los Baños, Laguna, Philippines

- Developed and refactored dashboards for datasets gathered on 120+ biological profilings on cave ecosystems using MySQL, ExpressJS, ReactJS, and NodeJS.
- Made in collaboration with the UPLB Museum of Natural History, improving interdisciplinary cooperation.

Software Quality Assurance Intern

KUMU, INC.

Aug. 2023

Remote

- Utilized Jira to report bugs and issues in a mobile live-streaming application, contributing to smoother sprint releases.
- Performed smoke testings 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

- 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

Non-Commissioned Cadet Officer, UPLB ROTC - Corps of Cadets

Dec. 2021 – Present

Nov. 2021 – May 2022

HONORS & AWARDS

Candidate for Magna cum Laude, University of the Philippines Los Baños

Recipient, Department of Science and Technology - Science Education Institute Merit Scholarship

Inductee, Phi Kappa Phi International Honor Society

Dec. 2025

Aug. 2021 – Dec. 2025

July 2024