Ramnick Francis Ramos

Information Security & Software Development

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Profile

A recent graduate from the Institute of Computer Science of the University of the Philippines Los Baños, I am an aspiring Software Developer and Information Security Consultant. As a developer experienced in collaborating with stakeholders and project beneficiaries, I am eager to leverage my technical foundation in both information security and quality assurance by working in a company that finds the synergy between the importance of making robust systems and developing software that is effective.

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*

Relevant Coursework

CMSC 191. Cybersecurity

CMSC 137. Data Communications and Networking

CMSC 123. Data Structures and Algorithms

CMSC 131. Computer Organization and Machine-Level Programming

CMSC 125. Operating Systems

CMSC 100. Web Programming

CMSC 127. File Processing and Database Systems

COMA 150. Workplace Communication

MGT 101. Concepts and Dynamics of Management

Experience

Software Development Intern   June 2024 – Aug. 2024

UPLB Computational Interdisciplinary Research Labs (CINTERLABS)   *Los Baños, Laguna, Philippines*

- Developed and refactored dashboards for microbiological datasets gathered on 120+ cave ecosystems profilings using MySQL, ExpressJS, ReactJS, and NodeJS.
- Collaborated with the University of the Philippines Los Baños Museum of Natural History's microbiology researchers, improving interdisciplinary cooperation with environmental researchers.

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.
- Communicated and collaborated with developers in ensuring the successful deployment of new features.
- 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, Encryption, Environment SetUID, Public Key Infrastructure, Shellshock Attacks, TCP/IP, Cross-Site Scripting (XSS).
- Performed penetration testings and in-depth analysis on malware using Ubuntu and Linux's Command Line.
- Written documentation 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 Baños.

- 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 the backend team to coordinate the API endpoints of the database schema using NodeJS and ExpressJS with the frontend.

SKILLS

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

Cybersecurity Competencies
Web & App Sec: SQL Injection, XSS, Input Validation
Networking: TCP/IP, DNS Security, Packet Analysis, Wireshark
Cryptography: Symmetric/Asymmetric Encryption, PKI, Hashing
Offensive Sec: Buffer Overflow, Shellshock, Malware Analysis

RESEARCH EXPERIENCE

"BATSeq: A Web-Based Database Management System for CAVES's RNA Nucleotide Sequences with Integrated Localized Basic Local Alignment Search Tool"
Co-authored with Asst. Prof. Arian J. Jacildo   Dec. 2025

"UPLB FebFair Official Mobile App: A Donation Management System Experimental HCI/UI Design Research"
Conducted under the advisory of Asst. Prof. Mylah Rystie U. Anacleto   May 2024

"PRISM: Developing an Archiving and Search Engine Service for the Scientific Literature of the Philippine Science High School - CALABARZON Region Campus Using the Doc2Vec Machine Learning Classification Algorithm"
Conducted under the advisory of Dr. Marizel B. Villanueva,
co-authored with Vianney Jo T. Tovilla and Mars Frederick H. Songco   May 2021

AFFILIATIONS

Developer, Logistics and Public Affairs   Dec. 2021 – Present
Alliance of Computer Science Students (ACSS) - UPLB   *Los Baños, Laguna, Philippines*
- Hosted events for external activities such as seminars and workshops for the annual ACSS Week.
- Worked primarily in the management of the physical assets of the organization through inventory curating.
- Managed partnerships with external organizations.

Non-Commissioned Cadet Officer   Nov. 2021 – May 2022
UPLB ROTC - Corps of Cadets   *Los Baños, Laguna, Philippines*
- Held a leadership position as the Acting G6, Communications, and Information Technology Officer.
- Led the team managing the official social media page of the UPLB ROTC.

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
University/College Scholar, University of the Philippines Los Baños   Several Semesters

LANGUAGES

English (Fluent)
Filipino (Native)