

Ramnick Francis Ramos

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EDUCATION

University of the Philippines Los Baños

Los Baños, Laguna

Bachelor of Science in Computer Science; GWA: 1.4431; Candidate for Magna cum Laude Aug. 2021 – Dec. 2025

Philippine Science High School - CALABARZON Region Campus

Batangas City, Batangas

High School Diploma; GWA: 1.42; 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

- Collaborated with a team of six developers in making dashboards for datasets gathered on 120+ biological profilings on cave ecosystems.
- Made in collaboration with the Museum of Natural History of the University of the Philippines Los Banos.

Software Quality Assurance Intern

Aug. 2023

KUMU, INC.

Remote

- Utilized Jira to report bugs and issues in a mobile live-streaming application.
- 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 Encryption, Public Key Infrastructure, Shellshock Attacks, SQL Injection, TCP/IP Protocol Suite, Cross-Site Scripting (XSS), etc.
- Performed penetration testings and in-depth analysis on malwares using Ubuntu and Linux's Command Line
- Documented findings through a collection of reports that incorporates suggestions on improving Information Security.

BatSeq | *MySQL, ExpressJS, ReactJS, NodeJS*

Jan. 2025 – Dec. 2025

- Developed a web application implementing bioinformatics tools such as BLAST for nucleotide sequences under UPLB-Museum of Natural History.
- Designed and developed the database schema on microbial data
- Engineered API Endpoints for the data retrieval and requesting together with npm packages for bioinformatics.

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

Programming & Scripting: Python, JavaScript, C, Java, Assembly, SQL, Bash, HTML

Web & Application Security: SQL Injection, Cross-Site Scripting (XSS), Input Validation

Networking & Protocols: TCP/IP, DNS Security, Packet Analysis, Wireshark

Cryptography & Encryption: Symmetric/Asymmetric Encryption, Public Key Infrastructure (PKI), Hashing Algorithms

Penetration Testing & Exploits: Buffer Overflow, Shellshock, Malware Analysis, Vulnerability Assessment, Metasploit

Databases: MySQL, MariaDB, MongoDB, Firebase, Secure Database Configuration

Frameworks & Tools: ReactJS, NodeJS, ExpressJS, Flutter, Docker, Git, GitHub, VS Code, IntelliJ, Eclipse, Oracle VirtualBox, Figma

Software Development: Agile Methodologies, Software Testing, Version Control, UI/UX Design