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*
- Developed web application using MERN Stack for the dataset under Center for Cave Ecosystems Research (CAVES) – The Museum of Natural History NICER Program.
- Collaborated with biologists and research scientists to gather requirements and implement features for the web application.

Software Quality Assurance Intern   Aug. 2023
KUMU, INC.   *Remote*
- Utilized Jira to report bugs and issues in a mobile live-streaming application.
- Worked with other technology interns to ensure the functionality of new features.
- Collaborated with the intern team on smoke testing for product deployment.

PROJECTS

SEED Laboratory Reports on Cybersecurity | *Bash*   Aug. 2025 – Present
- Created comprehensive laboratory reports on various cybersecurity topics such as Buffer Overflow Exploits, DNS Security, Encryption, Setuid Environment, Public Key Infrastructure, Shellshock Attacks, SQL Injection, TCP/IP Protocol Suite, and Cross-Site Scripting (XSS).
- Conducted experiments and analysis on cybersecurity vulnerabilities and attack vectors using Linux command line tools and techniques.
- Documented findings and recommendations in detailed lab reports to enhance understanding of cybersecurity concepts and practices.

BatSeq | *MySQL, ExpressJS, ReactJS, NodeJS*   Jan. 2025 – Dec. 2025
- Capstone Project: Developed a web application implementing bioinformatics tools such as BLAST for nucleotide sequences under the NICER Program.
- Designed and implemented database schema using MongoDB to store nucleotide sequences and user data.
- Created API endpoints using ExpressJS and NodeJS to handle user requests and data retrieval.
- Built responsive user interface using ReactJS and Material UI for sequence input and results visualization.

BRICS - Room Reservation System | *ReactJS, NodeJS, ExpressJS, MongoDB*
- Worked on Frontend Development Team to create a room reservation system for the Institute of Computer Science - UPLB.
- Implemented responsive user interface using ReactJS and Material UI.
- Collaborated with backend team to integrate API endpoints using NodeJS and ExpressJS for data management.

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