

RAINER GONZAGA

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EDUCATION

De La Salle University

Bachelor of Science in Computer Science, Major in Network and Information Security

Expected Graduation: Sep 2028

Manila, Philippines

Mapúa University - Senior High School

Science, Technology, Engineering and Mathematics Strand | GWA: 94.95

July 2024

Manila, Philippines

WORK EXPERIENCE & LEADERSHIP ROLES

DeckTradr

Apr 2026 – Present

Software QA & Machine Learning Specialist

- Annotated datasets and trained custom machine learning models for optical character recognition (OCR) and an AI condition grading system, improving scanner accuracy by over 40%
- Conducted rigorous QA testing across iOS and web builds for a TCG point-of-sale and inventory management system, streamlining the support funnel and ensuring platform reliability
- Collaborated on data-driven marketing initiatives, conceptualizing content strategies based on TCG price trends

La Salle Computer Society

Oct 2024 – Aug 2026

Associate Backend Engineer

- Architected the backend infrastructure for ArcherBytes, a centralized academic resource platform built for over 20,000 DLSU students, using Next.js and PostgreSQL.
- Designed and implemented scalable database schemas using Drizzle ORM, ensuring robust data integrity for complex content types, user reactions, and community-driven features.
- Engineered secure authentication and authorization flows by integrating Better Auth with Google Auth, enabling school-exclusive access and protected community interactions within the DLSU ecosystem.
- Recognized as Rank 2 in the Research and Development committee (Term 1 & Term 2, A.Y. 2025-2026) for exceptional technical contributions and leadership performance.

Mapúa University Senior High School Student Council

Sep 2022 – Sep 2023

Publicity and Content Committee Supervisor

- Supervised a 24-member team in producing graphic design materials for the entire 2022-2023 academic year.
- Awarded as "Best Committee" in 2 of 4 quarters during the academic year.

PROJECTS

ArcherBytes | NextJS, TypeScript, Better Auth, Drizzle ORM, Postgres, Docker

Oct 2025 – Present

- Engineered the backend architecture for a digital knowledge-sharing platform and CMS using NextJS and TypeScript, aimed at centralizing university academic resources.
- Developed robust REST APIs and database schemas with PostgreSQL and Drizzle ORM to manage core platform entities, including articles, nested comment threads, and user reactions.
- Implemented secure user registration and authentication via Google accounts using Better Auth.

AnimoNotes | Next.js, TypeScript, Prisma, Postgres, Better Auth

Apr 2026

- Developed a full-stack web application to centralize and streamline the sharing of academic resources for students within the College of Computer Studies at De La Salle University
- Engineered a responsive, type-safe frontend utilizing Next.js and TypeScript, and integrated Better Auth to enforce secure, student-exclusive authentication flows
- Architected the backend infrastructure using Prisma ORM and PostgreSQL, designing scalable database schemas for efficient storage and fast retrieval of user-generated study materials

Reliable Data Transfer over UDP | Python

Apr 2026

- Developed a peer-to-peer VoIP application implementing SIP for call signaling and RTP/RTCP for real-time audio streaming over UDP

PinoyBot | Python

Nov 2025

- Developed a supervised machine learning language identifier for Filipino code-switched text by engineering custom lexical features and utilizing scikit-learn.
- Refined a real-world NLP dataset by validating preliminary LLM annotations, and evaluated the final model's accuracy, precision, recall, and F1-score across a 70-15-15 data split.

TECHNICAL SKILLS

Programming Languages: C, Java, Python, JavaScript, TypeScript

CyberSecurity: Kali Linux, Penetrating testing, Networking, Python scripting and automation, Wireshark, Vulnerability Analysis

Web Development & Database: Next.js, HTML5/CSS, Postgres, MySQL, Prisma, Docker, Drizzle