# Deterala, Gwyne Justin G.

Manila, Metro Manila, Philippines | +63 961 383 6713 | gwynejustin.deterala.cics@ust.edu.ph
Github: **github.com/gwynejsn**

## PROFESSIONAL SUMMARY

Motivated 3rd-year Computer Science student at the University of Santo Tomas specializing in backend engineering, distributed messaging, and enterprise software architecture. Experienced in designing modular Java backends (Spring Boot, Spring Modulith), event-driven systems (RabbitMQ, STOMP WebSockets), and cross-platform clients (Flutter). Proven ability to implement secure end-to-end encryption protocols and heterogeneous database architectures. Seeking a Software Engineering Internship to build robust, scalable applications.

## TECHNICAL SKILLS

- **Programming Languages:** Java (21), TypeScript, Dart, Python, SQL, HTML5, CSS3
- **Frameworks & Libraries:** Spring Boot, Spring Modulith, React, Flutter, Tailwind CSS, Jakarta EE (Servlets/JSP)
- **Messaging & Protocols:** RabbitMQ (AMQP), WebSockets (STOMP), REST APIs
- **Databases & Storage:** PostgreSQL, MySQL, MongoDB (GridFS), Apache Derby, Hibernate / JPA
- **Tools & DevOps:** Docker, Docker Compose, Git, GitHub Actions, Maven, Postman, Vercel, JaCoCo
- **Core Competencies:** Clean / Modular Architecture, End-to-End Encryption (E2EE), Role-Based Access Control (RBAC), CI/CD Automation

## EDUCATION

### Bachelor of Science in Computer Science

**University of Santo Tomas – College of Information and Computing Sciences (CICS)**, Manila, Philippines
Expected Graduation: 2028

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Computer Organization & Architecture, Discrete Structures

## PROJECT

**Kite: End-to-End Encrypted Messaging Platform**
Aug. 2026 – Present
Full-Stack & Mobile Developer (Java 21, Spring Boot, Spring Modulith, Flutter, RabbitMQ, WebSockets, MongoDB, Docker)

- Architected a modular backend utilizing Spring Modulith and Clean Architecture, decoupling domain boundaries via internal application events and asynchronous RabbitMQ event externalization.
- Engineered a client-side zero-knowledge End-to-End Encryption (E2EE) engine in Flutter/Dart using X25519 ECDH key exchange and authenticated AES-256-GCM cipher suites.
- Implemented low-latency bidirectional messaging, message delivery/read receipts, and active user presence tracking using Spring WebSockets (STOMP) and reactive state management.
- Configured MongoDB replica sets with Flamingock schema migrations and utilized MongoDB GridFS for chunked, scalable storage of encrypted multimedia attachments.

- Automated CI test pipelines using GitHub Actions, Docker Compose, and JaCoCo to maintain code quality, regression resilience, and high test coverage.

**AlignIT: Tech Recruitment & Curriculum Alignment Hub**
Feb. 2026 – May 2026
Full-Stack Developer (Java, Jakarta EE, MySQL, PostgreSQL, Apache Derby, iText PDF, Chart.js)

- Engineered an enterprise Java web application connecting students, employers, and academic administrators with automated curriculum alignment tracking and granular Role-Based Access Control (RBAC).
- Designed a decoupled, heterogeneous multi-database persistence layer: Apache Derby for isolated credential stores, MySQL for transactional job applications, and PostgreSQL for curriculum telemetry.
- Integrated dynamic landscape PDF generation via iText featuring strict multi-page layout pagination, session metadata injection, and parameterized date-range filtering.
- Implemented Chart.js data visualizations to benchmark market skill demand against real-time candidate certification metrics.
- Secured sensitive data-at-rest using authenticated AES-GCM encryption and automated database bootstrapping using custom ServletContextListener schema migrations.