Amelia Joyce Abenoja

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EDUCATION

De La Salle University   Manila, PH
Bachelor of Science in Computer Science, Major in Software Technology   *September 2021 – Present*

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (MySQL), JavaScript, HTML/CSS, Kotlin, Ruby
Frameworks: Next.js, Node.js
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Android Studio, Firebase

PROJECTS

BookCol | *Kotlin, Firebase, Open Library API, Android Studio*   September 2024 – December 2024
- Developed a digital personal library mobile application using Kotlin allowing users to organize books and create wishlists.
- Integrated Firebase for authentication, real-time database synchronization, and user data management across devices.
- Implemented Open Library API and device camera integration for automatic ISBN (13) scanning and book detail retrieval.

Online Enrollment System | *Ruby, Docker*   April 2024
- Developed a web-based enrollment platform using Ruby on Rails (MVC) with authentication, course management, and grade handling features.
- Implemented distributed microservices deployed on separate Docker containers, enabling fault tolerance and service independence.
- Designed and deployed the system architecture to ensure isolation of failures without impacting overall system availability.

Producer-Consumer | *Ruby, Docker*   March 2024 – April 2024
- Built a concurrent client-server system with multi-threading, socket communication, and file I/o for video uploads.
- Implemented a queuing mechanism (leaky bucket) for rate control and efficient resource page.
- Developed a GUI to preview and play uploaded videos in real time.

EXPERIENCE

Research and Academics Director   September 2024 – Present
DLSU Computer Studies Government   *Manila, Philippines*
- Directed implementation of information-gathering processes through surveys, policy-making, and resolutions supporting student government projects.
- Streamlined data collection to evaluate and ensure the viability of college-wide initiatives.

Quality Assurance Intern   May 2024 – August 2024
Baytech BPO Corporation   *Pasig City, Philippines*
- Conducted manual testing on both front-end and back-end features across multiple software systems.
- Documented and reported bugs, contributing to enhanced product stability and improved user experience.

Activities Committee Associate   October 2023 – September 2024
DLSU Association for Computing Machinery Student Chapter   *Manila, Philippines*
- Coordinated and executed research, and applied computing events attended by 40+ participants.
- Supported the planning of technical workshops aligned with the chapter's academic industry and goals.

Project Management Committee Executive   November 2021 – December 2022
DLSU Computer Studies Government   *Manila, Philippines*
- Oversaw the planning and execution of student-centered programs serving over 500+ students.
- Managed timelines, deliverables, and communication across multiple student organizations.