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EDUCATION

University of the Philippines Tacloban

Tacloban City, Leyte

Bachelor of Science in Computer Science

Exp. July 2027

- **Awards:** DOST-SEI Scholar (2023–Present), Batch Valedictorian (2023)
- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Management, Automata Theory, Software Engineering, Artificial Intelligence

EXPERIENCE

DEVCON Philippines

UP Tacloban

Campus Ambassador

May 2025 – Present

- Represent the Philippines' largest community of developers within the university, organizing tech events and workshops to foster local talent.
- Facilitate partnerships between the academe and professional tech communities to bridge the gap between theory and industry practice.

BrainBox

Tacloban City, Leyte

Programming Tutor

Jan. 2025 – Present

- Mentor students in fundamental programming concepts (Java, Python), resulting in measurable improvements in academic performance and coding comprehension.
- Develop customized lesson plans and technical exercises to simplify complex algorithmic topics for beginners.

UP Interactive Society

UP Tacloban

Vice President

Aug. 2024 – May 2025

- Lead project management initiatives for the academic organization, overseeing event logistics and team coordination for the BSCS student body.
- Spearhead collaborative projects that enhance peer-to-peer technical learning and student engagement.

PROJECTS

Project AIGRI (at Google Bangkok) | Python, Flask, OpenCV, ResNet-50

Jul. 2025 – Oct. 2025

- Architected the backend system and AI pipeline for an automated crop insurance platform designed to quantify agricultural damage via drone imagery.
- Integrated a pre-trained ResNet-50 computer vision model to automate crop damage classification, significantly reducing manual verification time for insurance claims.
- Designed and deployed a RESTful API using Flask to ensure secure data flow between the image ingestion engine and the user reporting interface.

Stealth (rSCENE Hackathon) | Python, Flask, PostgreSQL

June 2025

- Led a development team to win **5th Place Overall** at the Regional Smart Communities Exposition Hackathon.
- Developed backend services using Python and Flask, implementing robust data structures to handle game logic and user experience optimization.
- Managed the project lifecycle from ideation to pitch, ensuring the prototype was delivered within strict hackathon time constraints.

General Laboratory IMS | Java, MySQL, JDBC

Feb. 2025 - Apr. 2025

- Engineered a comprehensive desktop application for UP Tacloban to manage laboratory equipment and materials inventory.
- Designed a normalized MySQL database architecture to track equipment categorization and real-time availability across multiple departments.
- Streamlined manual inventory tracking processes, reducing administrative overhead for laboratory personnel.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL (PostgreSQL, MySQL), Dart, HTML/CSS

Frameworks: Flask, Flutter, TensorFlow, React (Basic)

Developer Tools: Git, GitHub, VS Code, IntelliJ, Docker

Libraries: Pandas, NumPy, OpenCV, PyTorch