

Isaiah Sam SD. Pascual

Greenland Street • Quezon City, 1116 • isaiah_sam_pascual@dlsu.edu.ph • + 63 976 407 6762

EDUCATION

De La Salle University
Computer Science Majoring in Software Technology, **3.072 GPA**

Manila, Philippines
October 2021 - December 2025

Undergraduate Thesis - GRASP
Machine Learning Authentication System

Manila, Philippines
May 2024 – December 2025

- Led the end-to-end engineering lifecycle of a gesture-based authentication system, from requirements definition and solution design to implementation, testing, and validation.
- Designed and implemented a machine-learning pipeline using Python, MediaPipe, OpenCV, and Random Forest classifiers, achieving 98% gesture accuracy and 100% spoof rejection through structured user and performance testing.

WORK EXPERIENCE

Shopee Philippines
Fraud Detection & Listings Intern

Ortigas, Philippines
June 2025 – August 2025

- Led the development and release of an offline fraud detection solution by combining machine-learning models and rule-based automation, improving fraud detection rates by 40% and transitioning the system into production operations.
- Operationalized large-scale data processing, analyzing 200M+ listings using Python-based pipelines to deliver a 97% detection accuracy, enabling scalable and repeatable fraud identification.

Asurion Hong Kong Limited ROHQ
Software Quality Assurance Intern

Taguig, Philippines
May 2024 – August 2024

- Owned the automation strategy for five client applications, designing and implementing test automation frameworks that increased automation coverage from 70% to 95%.
- Streamlined the software testing lifecycle by integrating JavaScript and Selenium-based automation into QA processes, improving release reliability and operational efficiency.

LEADERSHIP & SOFTWARE ENGINEERING EXPERIENCE

Computer Studies Government
Director for Website Development Committee

Manila, Philippines
January 2024 – December 2024

- Led engineering delivery for institutional platforms, managing an 11-member executive team responsible for development, quality, and release of the College of Computer Studies’ web systems
- Defined the technical roadmap and led the migration of the ONECCS platform from Google Sites to a React and Node.js-based architecture, improving maintainability, deployment control, and long-term scalability.

User Experience Society - Taft
Web Development Executive

Manila, Philippines
January 2024 – December 2024

- Contributed to architecture and feature development for a university-wide web application using React and JavaScript, balancing user experience requirements with technical constraints.
- Helped establish development best practices, supporting separate development and production environments backed by MongoDB.

AWS Archer’s Learning Club
Director for Logistics Committee

Manila, Philippines
January 2024 – January 2025

- Spearheaded cross-functional delivery teams across multiple initiatives, coordinating timelines, resources, and execution with operational discipline, while improving team capability and process efficiency through workshops focused on logistics optimization and execution excellence.

CSO: Annual Recruitment Week
Assistant Team Head for Website Development Committee

Manila, Philippines
September 2023 – October 2023

- Pioneered engineering delivery of a high-traffic platform serving the entire DLSU student body, handling 30,000+ unique page loads with reliability and performance.
- Supported full-stack architecture decisions using React, ExpressJS, and MongoDB, with structured dev/prod environments.

NurseLink
Full Stack Developer

Manila, Philippines
May 2023 – August 2023

- Owned full-stack development of a healthcare professional networking platform, translating business requirements into technical solutions.
- Delivered and handed over a production-ready system using React, Node.js, and MongoDB, ensuring client readiness and operational continuity.

TECHNICAL SKILLS

Programming & Platforms
JavaScript, TypeScript, Python, React, Next.js, Node.js, Express, SQL, MongoDB

Engineering & Dev Practices
Test Automation (Selenium), CI/CD concepts, Dev/Prod Environment Management, Agile Development, PRINCE2

Tools
GitHub, Vercel, Jupyter Notebook, TailwindCSS