

# Isaiah Sam SD. Pascual

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## 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