Lawrance Velasques

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PROFESSIONAL SUMMARY

Computer Science student at BINUS University with academic project experience in computer vision, machine learning, and Python programming. Interested in applying technical and analytical skills to real-world software development challenges.

EDUCATION

BINUS University Bachelor of Computer Science | GPA 3.53 / 4.00 — Expected 2028
Relevant coursework: Machine Learning, Natural Language Processing, Artificial Intelligence, Software Engineering

SMAs Darma Yudha — 2021-2024
Senior High School Diploma - Science (IPA) | Average Grade: 91/100

PROJECT EXPERIENCE

Game Automation & Scripting | Personal Technical Project — 2022 - Present
- Developed Lua and Python scripts to automate repetitive tasks and manage in-game workflows.
- Implemented item counting, file processing, and automated task handling.

Plastic Bottle Detection | Traditional Computer Vision | Academic Project — Feb 2026 – Jun 2026
- Developed a plastic bottle detection approach using traditional computer vision techniques.
- Applied image processing methods, including HSV color segmentation, Canny edge detection, and contour detection to identify bottle objects.
- Explored HOG (Histogram of Oriented Gradients) and SVM (Support Vector Machine) for object verification.

Water Bottle Level Classification | Machine Learning | Academic Project — Feb 2026 – Jun 2026
- Worked on a machine learning project to classify water bottle fill levels into three categories: Full, Half, and Overflowing.
- Explored image classification techniques to distinguish between different bottle fill levels.
- Contributed to the development of a computer vision-based approach for automated bottle level recognition.

Tap Tap | NFC Digital Business Card |Chief Financial Officer (CFO) | Venture Creation Project — 2026 - Present
- Contribute to the development of an NFC-enabled digital business card product that connects users to digital portfolios and online information.
- Support financial planning and business decision-making as CFO.
- Collaborate with the team on product development, customer feedback collection, and preparations for the product launch.

Kerjoo | Job Marketplace Platform | Academic Team Project | Team of 5 — Feb 2026 – Jun 2026
- Collaborated with a team of five to develop a job marketplace platform covering the workflow from job posting to payout.
- Contributed to UI/UX design using Figma, helping design the platform's user interface and user experience.

RESEARCH

Robustness Analysis of BERT-Based Detectors Against Paraphrasing and Adversarial Attacks — Feb 2026 – Jun 2026
- Participated in a collaborative research project investigating the robustness of BERT-based detectors against paraphrasing and adversarial text attacks.
- Observed the model fine-tuning and adversarial evaluation process using the CHEAT dataset and TextFooler attack method.
- Gained exposure to transformer-based text classification, adversarial machine learning, and research evaluation methodologies.

SKILLS

Programming Languages : Python, C, SQL
Tools & Technologies : OpenCV, NumPy, Pandas, Scikit-learn, Google Colab, Visual Studio Code, MySQL, SQLite, Figma, Microsoft Excel
Professional Skills : Teamwork, Problem-Solving, Communication, Financial Planning
Languages : Indonesian (Native), English (Basic)

CERTIFICATIONS

Azure AI Fundamentals Training (AI-900T00-A), Microsoft Elevate | GreatNusa and Microsoft Indonesia — March 2026