

Alain P. Cheng

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EDUCATION

De La Salle University

NCR, Manila

Bachelor's of Science in Computer Science

Expected Graduation October 2025

- **Specialization:** Software Technology
- **Relevant Coursework:** Basics with C, Object-Oriented Programming, Data Structures and Algorithms, Software Engineering, Mobile Applications, Statistical Modeling, Machine Learning, Assembly, Secure Web Development, Database Systems, 3D Modeling, Game Design, Human-Computer Interaction.

SKILLS

Programming: Python, TensorFlow, PyTorch, Java, Typescript, Javascript ES6, React.js, Next.js, Framer Motion, Three.js, Node.js, Vercel, REST APIs, MySQL, MongoDB, Godot

Technical: Web Development, Machine Learning, Mobile Game Development, 3D Modeling

Tools: VSCode, GitHub, Android Studio, NetBeans, Figma, Postman, Blender, Clip Studio, Jira

PROJECTS

Image Segmentation — Undergraduate Thesis

Machine Learning in Computer Vision | September 2023 - Present

- We train and benchmark 4 semantic segmentation models on our synthesized dataset to isolate areas that contain steganographic images. The models are run on TensorFlow for Python on an NVIDIA Tesla V100 GPU.
- Recreated the U-Net architecture and developed a model we proposed, based on a modified version of BiSeNet, we refer to as MobileBiSeNet using strategies introduced in MobileNets.

G-Cakes — Website

Software Engineering | February 2023 - April 2023

- We revamped a website for a local cake business using TypeScript and Next.js for the frontend.
- We used Node.js, Vercel, and Contentful CMS for our backend. Our project was managed through Jira, following an agile SDLC.

Taboo — Mobile Game Application

Mobile Development | September 2023 - November 2023

- We develop a simple 2D maze-crawler mobile game using Android Studio with Java and the Godot Engine with GDScript. I also designed part of the UI assets via Figma and created the game art for our main application screen via Clip Studio.
- Received an endorsement from our Software Technology Department Chair for the top 5 mobile applications created in the course.

OTHERS

Awards: First Honor Dean's List (AY 2023-2024, Term 3)

Activities:

Volunteer Lab Representative

The Center for Computational Imaging and Visual Innovations — May 2024

- Represented our research lab's booth to engage with visitors to explain our key research projects and promote the lab's innovations.

Interests: Illustration, Cooking, Swimming, Photography