# Gabriel Kenneth L. Marinas

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## Education

**University of the Philippines Diliman** — Quezon City, Manila
*Bachelor of Science in Computer Science (Magna Cum Laude)* — *Aug. 2019 – Jul. 2023*

**University of Santo Tomas** — Manila, Metro Manila
*Senior High School Academic Track - STEM Strand (Final Average: 90.70)* — *Aug. 2017 – May 2019*

## Experience

**UPD DCS NDSG** | *Researcher* — September 2022 - February 2023

- Became a researcher for the *Networks and Distributed Systems Group* of the UP Diliman Computer Science Department.
- Investigated the use of classifier algorithms and blockchain technology in securing IoT networks.

**Saperium** | *Software Engineer Intern* — June 2022 - August 2022

- Created a full-fledge Wikipedia clone with modern features such as data caching and real-time web.
- Implemented the video and comment API for the interns' collaborative project – a Youtube clone.
- Worked through the projects following the Agile methodology.

**UP DLRC** | *Tutor* — November 2021 - December 2021

- Created a sample exam and made corresponding solution videos as a supplementary aid for students undertaking Calculus.
- Tutored around 60 undergrads who are about to take their Final Exam in Calculus through a live video session.

## Projects

**GBIPG** | *Processing, Python* — May 2022 - June 2022

- A terminal application that generates a color blind test image (*Ishihara plate*) from an image input through a novel implementation that models the problem as a *Constraint Satisfaction Problem* and solves it using backtracking and constraint propagation.
- Can generate an *Ishihara plate* 9.31 times faster than the traditional *Monte Carlo Method* implementation.

**WikiClone** | *Javascript, HTML/CSS, MySQL* — June 2022 - August 2022

- A complete clone of the Wikipedia website as a requirement for the Saperium internship. It includes features like article CRUD functionality, user system with different possible roles, and article version control system.
- Uses a flat table implementation for its database schema for faster reading time, uses *Redis* for caching recently viewed articles in memory, and uses *Socket.io* for real-time update on article and user changes.

**CRS Seeker** | *Python* — December 2021 - January 2022

- A terminal application that scrapes the *UP Computerized Registration System* (CRS) website and ranks the available courses in the pre-enlistment page based on the highest chance of getting in.
- Used in acquiring full units for my Junior and Senior year.

## Awards

**DOST Merit Scholar** — August 2019 - July 2023

**University Scholar** — A.Y. 2021-2022, A.Y. 2022-2023

## Technical Skills

**Languages**: Python, Typescript, Javascript, Rust, C, HTML/CSS, SQL
**Frameworks/Libraries**: Angular, React, Node, Express, Redis, Numpy/Pandas/Pyplot, scikit-learn
**Dev Tools**: Git, Bash, VS Code, Vim
**OS/Platforms**: Windows, Linux, Mac, AWS