

Gabriel Kenneth L. Mariñas

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EDUCATION

University of the Philippines Diliman

Bachelor of Science in Computer Science (1.3206, Magna Cum Laude)

Quezon City, Metro Manila

Aug. 2019 – Jul. 2023

University of Santo Tomas

Senior High School Academic Track - STEM Strand (Final Average: 90.70)

Manila, Metro Manila

Aug. 2017 – May 2019

EXPERIENCE

Lexagle | Junior Software Engineer

December 2023 - Present

- Builds and maintains the web application for a leading contract management platform that streamlines the process of working with contracts.
- Creates modern UI components using React and Material UI, and robust microservices using Kotlin and Spring.

Saperium | Software Engineer Intern

June 2022 - August 2022

- Created a full-fledged 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 vision test plate (*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 clone of the Wikipedia website that includes features like article CRUD functionality, user role system, 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 and DSLs: Python, Typescript, Kotlin, Rust, C, HTML/CSS, SQL, JPQL

Frameworks/Libraries: Angular, React, Redux, Spring, Node, Express, Redis, Numpy/Pandas/Pyplot, scikit-learn

Dev Tools: Git, Bash, Docker, Postman

OS/Platforms: Windows, Linux, Mac, AWS

Databases: PostgreSQL, MySQL