Genio Brylle C. Viernes

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EXPERIENCE

DOST - ASTI: Gul.AI Project (Aug 2020 - present)

- Implemented an embedded GUI application with real-time features using server-sent events written in SvelteKit

- Implemented an Android application as front-end to a hydroponics system connected to a REST API backend and an embedded GUI application with real-time features

- Implemented an open-source library for connecting a Raspberry Pi to Wi-Fi in Node.js

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FRAMEWORKS

Svelte & SvelteKit
Reactive Stores, RESTful APIs, Websockets, Server-sent Events

Android
MVVM, MVI, SQLDelight, Jetpack Compose, Hilt

Embedded & Embedded GUI
SerialPort (Node.js), pySerial and Kivy (Python), TotalCross (Java)

PROGRAMMING LANGUAGES

TypeScript, Kotlin, Java, Python

SOFTWARE ENGINEERING

functional and object-oriented programming
I employ a hybrid of the two: pragmatic FP with composition-based OOP.

domain-driven design
I use algebraic data types for domain modeling and pattern-matching for extending functionality.

concurrency
Familiar with async-await (TypeScript) and coroutines (Kotlin).

GENERAL SKILLS

web
HTML, CSS, Tailwind CSS, JavaScript

databases
SQLite, Couchbase Lite, peewee ORM

dev tools
Android Studio, VS Code, git, LaTeX

EDUCATION

University of the Philippines Diliman
MS Computer Science: Feb 2023 - present

University of the Philippines Diliman
BS Civil Engineering: graduated 2020