Valentin VIGNAL

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○ GitHub   🌐 Portfolio

PERSONAL STATEMENT

Senior Full Stack Developer with 5 years of expertise in Flutter, Svelte, and NestJS, committed to quality, continuous learning, and honest, results-driven communication. Skilled in crafting efficient, scalable solutions and fostering collaboration for excellence in a dynamic environment.

TECHNOLOGY STACK

Languages:	Dart, TypeScript, Svelte, JavaScript, Rust, HTML+CSS, Python, Kotlin
Frontend Frameworks:	Flutter, ReactJS, Svelte, SvelteKit
Backend Frameworks:	NodeJS, Express, NestJS, GraphQL, TypeORM
Platforms:	macOS, Linux, Windows
Databases:	PostgreSQL, MySQL, SQLite, Firebase
Testing frameworks:	Flutter test, Jest, Vitest, Playwright, Cypress

EXPERIENCE

Novade Solutions   *novade.net*

Sep 2022 - Present	**Senior Full Stack Developer** Singapore
Jun 2019 - Aug 2022	**Software Developer** Singapore

NovadeLite Project

NovadeLite (lite.novade.net) is a smart field management system for the building and construction industry. Keeping track of construction projects, assets, various kinds of forms, tasks, and managing people are some of the key features in this project.

Tools and technologies: Flutter, Dart, Typescript, PostgreSQL, SQLite, GraphQL, NodeJS, NestJS, REST, Socket.io, TypeORM, Jest, Bitrise, Firebase, Sentry, Amplitude, Stripe, Git, Bash.

- Work as a full-stack developer (Frontend: Flutter, Backend: NodeJS, NestJS, GraphQL, REST, TypeORM, PostgreSQL).
- Executed a comprehensive restructuring of the project's mono-repo architecture using Melos, resulting in a 50% reduction in build, 10x reduction in code generation, and improved scalability.
- Achieved a 40% reduction in loading time by optimizing front-end development processes using Dart and Flutter.
- Integrated payment and subscription features, resulting in a 50% increase in revenue within six months.
- Implemented a company wide Quality Assurance (QA) process and Continuous Integration (CI) framework, leading to a 50% decrease in bug reports and 30% faster deployment cycles.
- Established standardized protocols for code quality and consistency, resulting in a 40% decrease in code review time and increase in developer productivity.
- Overhauled the GraphQL API and PostgreSQL database, enhancing safety, relevance, and performance, resulting in a 15% decrease of the project code size.
- Code reviews and consultation on possible issues and edge cases reducing 10% of possible regression issues.
- Breaking down the user stories and estimations achieving near 100% project goals on time.

EDUCATION

- **Master degree in Computer Science**   *Jan 2019 - Jun 2020*
  National University of Singapore, Singapore
- **Master degree in Engineering**   *Sep 2016 - Jun 2020*
  CentraleSupélec, France

Voluntary Work

- **Stack Overflow**   *Sep 2019 - Present*
  stackoverflow.com/users/12066144/valentin-vignal
- **PyroNear**   *Jan 2024 - Present*
  pyronear.org//en/

PyroNear is a complete fire risk management solution. It consists of an early wildfire detection algorithm, implemented on a microcomputer, connected to cameras positioned on high spots with a view on the forest. Our detectors communicate fire alerts to a database that is connected to a supervision platform for the fire department.

Tools and technologies: TypeScript, ReactJS, Jest

– Contributed to developing a front-end *"crowdsourcer"* app for wildfire image uploads.
– Implemented front-end tests using JEST for enhanced reliability.
– Improved user experience by refactoring routing with React Router.

Open Source Contributions

- **Flutter**   *flutter.dev*
  Flutter is Google's SDK for crafting beautiful, fast user experiences for mobile, web, and desktop from a single code-base.
- **Go Router**   *go_router*
  A declarative routing package for Flutter that uses the Router API to provide a convenient, url-based API for navigating between different screens.
- **Riverpod**   *riverpod.dev*
  A reactive caching and data-binding framework.
- **Ferry**   *ferrygraphql.com*
  A simple, powerful GraphQL Client for Flutter and Dart.
- **Ferry**   *drift.simonbinder.eu*
  Drift is a reactive persistence library for Flutter and Dart, built on top of SQLite.

Personal Projects

- **animated_collection**   *pub.dev*
  A Flutter library with simple animated widgets and utilities methods to use with animations.
- **Padelistas**   *padelistas-app.web.app, Github*
  A flutter application to organize padel games in Singapore.
- **Dart Analyze**   *dart-analyze*
  A Github action that analyzes dart code by running `dart analyze` and `dart format`.