

## 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

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

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- Flutter flutter.dev
- 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

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- 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.

## EXPERIENCE

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- AWS Cloud Virtual Internship Online  
AICTE-Eduskills  
May - July 2023
  - In-depth understanding of AWS cloud computing services, including EC2, S3, RDS, Lambda, IAM, VPC, and more.
  - Proficient in designing, deploying, and managing fault-tolerant, highly available, and scalable AWS solutions.
  - Strong knowledge of architectural best practices, such as AWS Well-Architected Framework, security, performance, and cost optimization.
  - Hands-on experience in cloud infrastructure provisioning, monitoring, and automation using AWS Management Console and AWS CLI.
- Palo Alto Cybersecurity Virtual Internship Online  
AICTE-Eduskills  
Dec 2022 - Feb 2023
  - Learned the fundamentals of Security Operations Center (SOC).
  - Learned basics of Network & Cloud Security.