Valentin Vignal

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 GitHub
 LinkedIn
 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, JavasScript, 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

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 technology: 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*

•**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

• **Web Based Facial Authentication(Liveness Detection)**

A website based facial authentication system, implemented using a Chrome Extension.

- Facilitating users' logins to websites without having to remember their credentials
- Used Live detection techniques to create high order security.
- Technology Used: Python, Reactjs, Bootstrap.

• **Realtime Chat App**

A react based web application which allow users to chat in real time.

- Used Firebase Authentication(SDK) to facilitate authentication & Cloud Firestore to store data.
- Technology Used: Reactjs, Firebase, Bootstrap, HTML.

• **Covid-19 Tracker**

Daily and weekly updated statistics tracking the number of COVID-19 cases, recovered, and deaths.

- Tracking world-wide cases using google maps and live API stats and datasets.
- Technology Used : JavaScript , CSS, HTML, API.

Experience

• **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.

Positions of Responsibility

• **On Desk Registrations Volunteer** Aarhant Cyber Week Event - RCOEM, Nagpur *Oct - Dec 2022*

- Helped to attract close to 300 attendees to the event.
- Collected over Rs. 20,000 in entry fees for different activities.