



Alan Jean
Technology Architect

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Profile

I am a highly technical software developer with a strong inclination for system design.

I developed - and strive to quench - a rage to master the languages, techniques, and technologies I use in my craft.

Consequently, I cultivated an ability of quickly getting a grasp of new technologies when required.

Having strong pedagogical skills, I have a track record of successfully coaching peers beyond my seniority level, while in leadership positions.

Some of my most significant work involved:

- migrating monolithic applications to microservice-based architectures,
- refactoring home-grown solutions to robust architectures based on tried and true design patterns
- development of drop-in modules for Spring Boot, Keycloak, and Angular for a portable, decoupled multi-tenancy solution across the stack
- full-stack development of various web apps including handling subsequent cost-effective hosting and scaling
- setup and management of dev, test & prod swarm clusters
- migration of native workloads to containerized environments

My current preferred tech stack is Java 17, Spring Boot, Angular, Docker Swarm, and AWS. But I also have interest in Go, NestJs, React, and Python.

Additionally, some of my interests include security, authentication and authorization (OIDC/OAuth2), and devops practices.



Work Experience

[JUN 2018 - JUN 2021] **Maureva Ltd** — ◎

Senior Software Developer
Software Developer

Proposed and lead the initiative to:

- transition the legacy monolithic system bringing in 80% of Maureva's revenue to embrace a micro-service architecture, which enabled easy scaling of critical services.
- embrace containerization and orchestration to tackle the challenges of development and deployment, and increasing the uptime of critical APIs..

Earned the technical referent of backend development role.

Co-led Maureva's R&D projects.

Responsible for transcribing Maureva's extensive security requirements into OAuth2/OIDC primitives, and implementing them on Keycloak.

Responsible for coaching peers above my seniority level on Java, SDLC, design patterns, and best practices.

[2017] **TrackMau** — ◎

Full Stack Developer

Designed and implemented a fully-featured audio sharing and distribution web app for Mauritian DJs.

◎ — **Stratalis Ltd** {JUN 2021-PRESENT}

Technical Architect

Responsible for:

- designing the architecture of greenfield applications
- adapting existing applications to enable scaling to current demands
- designing and implementing new features in brownfield applications
- identifying, investigating, and resolving complex bugs
- coaching peers with regards to best practices & SDLC
- formalizing a data pipeline architecture
- setting up tooling, and developing frameworks to improve developer experience and efficiency
- effecting technology watches to identify novel tech / tooling / approaches / techniques, and producing POCs
- introducing high-availability through healthchecks and orchestration for existing apps. and resiliency patterns for new ones
- system administration of production nodes

◎ — **Travelbudds** {2020}

Full Stack Developer

- Full-stack development of the social media feed and business users' portal.
- Handled setup of dev and prod environments (TLS, reverse proxy, ...)

◎ — **Avipro Co. Ltd** {2015 - 2018}

Software Developer

Conceptualized, proposed and implemented an integrative system — consisting of multiple web apps, mail crawlers, DLLs, and native utilities that — for digitalizing and automating the laboratory's processes.

Key Achievements

- Improved code quality, and introduced usage of best practices through coaching, formalizing code reviews
- Improved developer productivity by introducing supporting tooling
- Reduced time spent on admin/ops activities and incident response delays, through automation and telemetry, by 90+%
- Applied the Strangler Fig Pattern to progressively migrate and enhance functionalities of brownfield applications
- Applied various patterns (ACL, CQRS, Circuit Breaker, ...) to architect the design of new features, or enhance existing ones
- Developed cleanly designed and extendable libraries to increase code reuse and reduce implementation time required (eg: drop-in auto-configurable Spring Boot modules, pagination plugins, a crawler framework, ...)
- Heavily employed AOP and custom meta-annotations to handle cross-cutting concerns save development time
- Achieved 99.99% uptime on APIs through applying resiliency patterns, coupled with orchestration and health checks



General Programming

	Current	Hobby
Past	* Java * JavaScript * TypeScript * Python * C# * C++	* Go * Kotlin * Rust

Frameworks

	Current	Hobby
	* Spring (Data, Batch, Cloud, ...) * Spring Boot * Angular * NestJS	* Svelte * React * NextJS * Quarkus * Micronaut * Axon
		* Lua

Scripting

	Current	Hobby
	* Bash * AWK * Groovy * sed	* Lua

Databases

	Current	Past	Hobby
	* MongoDB		* DynamoDB
	* PostgreSQL		* Oracle
	* Redis		* MySQL
	* SQLite		* MsSQL

Cloud Providers

	Current	Hobby
	* AWS * OVH * Azure	* GCP

Tools

	Current	Hobby
	* Docker Swarm * Traefik Proxy * Jenkins * Jupyter * Metabase * Apache Airflow * Apache Drill * Fn	* GraalVM * Dagster * Kubernetes



University of Mauritius [2018]

BSc Comp Sci

Thesis: Modelling an UAV's autopilot control system

Royal College of Port-Louis [2014]

HSC

Physics - A*
Maths - A
French - a

Royal College of Port-Louis [2011]

SC

Aggregate: 9



Træfik Ambassador [2020 -Present]

I provide technical assistance to businesses and developers adopting Træfik Proxy.
I also make talks on the topic.

Krathathon [2019]

Top 10

A 24 hour hackathon with 55 teams and 45 challenges with themes ranging from algorithms. to CTFs, via blockchain and AR.

MCB InovApp Challenge 2.0 [2019]

Winner

Developed "Artisan's Hub", a digital ecosystem to connect handy workers and the public, in a 24 hours hackathon.

The solution comprised of a web app, built with Angular, and a React-Native mobile app. Both apps were backed by a serverless core powered by Amazon Web Services (Lambda, S3, Cognito, Dynamo DB, API Gateway), as well as connected to banking APIs provided on the spot.