

# Pierre-Stéphane Voltaire

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## Summary

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Senior Full-Stack Developer with over 7 years of experience in building scalable web applications and cloud-native services. Strong expertise in **TypeScript/JavaScript** and **React**, along with extensive backend skills in **Node.js**, **Java**, **Go**, and **Python**. Proficient in architecting microservices and serverless solutions, optimizing databases, implementing CI/CD, leveraging multi-cloud platforms (**AWS**, **Azure**), containerization (**Docker**, **Kubernetes**), and Infrastructure as Code.

## Skills

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**Languages:** TypeScript, JavaScript, Java, Node.js, Python, Go, SQL, Bash

**Frontend:** React, Vue.js, Angular, Redux, HTML5, CSS3/SASS, Jest

**Backend:** Spring Boot, Express, NestJS, Flask, FastAPI, Django, Gin, OpenAPI, Serverless, Mocha, JUnit

**Databases:** PostgreSQL, MongoDB, Redis, Oracle, MySQL, Elasticsearch, DynamoDB, DocumentDB

**Cloud & DevOps:** AWS (Lambda, EC2, ECS, S3,RDS), Azure, Docker, Kubernetes, Terraform, CI/CD

## Experience

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### Senior Platform Engineer

Mar 2021 – Present

*Mitsubishi UFJ Financial Group | Toronto, ON, CA*

- **Developed a high-availability GitLab backup solution** using FastAPI (Python) and Redis caching, protecting 1,000+ repositories with scalable multi-instance architecture deployed via ArgoCD and Kustomize.
- **Architected cloud migration strategies** for legacy Java and .NET applications, redesigning monolithic systems into serverless Lambda functions and containerized microservices, achieving significant cost savings through KEDA autoscaling and resource optimization.
- **Optimized database performance** during critical outages by identifying and resolving low-performing Oracle queries on RDS, ensuring system stability and improved response times.
- **Built secure configuration management tools** using Node.js and Python Lambda functions integrated with Jenkins, streamlining secret management and application deployment processes.
- **Implemented comprehensive monitoring solutions** integrating Datadog APM into cloud-native applications, accelerating troubleshooting and improving performance visibility.
- **Mentored development teams** on cloud-native architectures, guiding the adoption of serverless patterns and Docker-based solutions while maintaining hands-on development of critical services.

### Full-Stack Developer

Aug 2020 – Mar 2021

*Airborne App | Oakville, ON, CA*

- **Developed RESTful microservices** in Go with PostgreSQL, implementing CRUD operations and business logic while integrating with multiple AWS services (S3, Lambda, RDS).
- **Built responsive frontend features** using React, TypeScript, and SASS, focusing on performance optimization and seamless API integration.
- **Implemented comprehensive tests** using Jest and integration tests, ensuring code quality through automated CI/CD pipelines with GitHub Actions.
- **Created ephemeral testing environments** using GitHub Actions, Terraform, and S3, accelerating frontend validation and improving developer-product owner collaboration.

## Full-Stack Developer

May 2019 – Apr 2020

*EllisDon | Mississauga, ON, CA*

- **Built internal reporting system** using React and Spring Boot with MongoDB, creating dynamic forms and reducing frontend bundle size through code optimization.
- **Implemented Elasticsearch fuzzy search** for internal documents and forms, significantly improving user search experience and document discovery.
- **Developed interactive onboarding tutorial** in React to improve the onboarding experience for new users, streamlining user adoption and reducing support requests.
- **Maintained full-stack applications** using Node.js, Typescript (Express, NestJS) and Java (Springboot), ensuring high code quality through comprehensive unit testing with Jest and JUnit.
- **Optimized application performance** through efficient database query refactoring and caching strategies, improving response times for critical business operations.

## Certifications

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HashiCorp Certified: Terraform Associate (003) (HCTA0-003)	June 2025 – June 2027
Microsoft Certified: Azure Developer Associate (AZ-204)	In Progress

## Education

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Sheridan College, Bachelor of Computer Science – Mobile Computing	Sept 2016 – Apr 2020
Sheridan College, Computer Systems Technician – Software Engineering	Sept 2014 – Aug 2016