

## Michel Popolin de Freitas

Senior Software Engineer | Node.js | React | Vue.js | NestJS | Distributed Systems

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### Professional Summary

Senior Software Engineer with 24+ years of experience designing, developing, and scaling software solutions across healthcare, fintech, and media industries. Specialized in Node.js, NestJS, React, Vue.js, and TypeScript, with a strong foundation in Java, OOP, SOLID principles, clean code, and design patterns.

Skilled in distributed systems, microservices architecture, and cloud-native development with AWS and GCP. Proven track record delivering high-performance web and mobile applications for U.S. and Canadian companies, including Clearco, PayPal, Digital Trends, and Clipboard Health.

### Career Highlights

- 24+ years of experience in software engineering, focusing on distributed systems and scalable architecture.
- Delivered solutions for Clearco, PayPal, Digital Trends, and Clipboard Health impacting millions of users.
- Designed and implemented a feature flags platform reducing infrastructure costs by 20%.
- Led migration to NestJS, standardizing tech stacks and reducing onboarding time by 30%.
- Built and launched mobile apps using React Native and Ionic with geofencing integrations.
- Participated in TechMission Silicon Valley (2013), expanding innovation and leadership skills.

### Core Skills

Programming Languages: Java, JavaScript, TypeScript, SQL, HTML5, CSS3, JSON, XML

Frameworks & Libraries: Node.js, NestJS, Express.js, React.js, Vue.js, Next.js, React Native, Ionic, Capacitor, JPA, EJB, JSF, RichFaces

Architecture & Best Practices: OOP, SOLID Principles, Clean Code, Design Patterns, Microservices, Distributed Systems, API Design (REST & GraphQL)

Databases: PostgreSQL, MySQL, SQL Server, Oracle, MongoDB, Caché Database

Cloud & DevOps: AWS, Azure, Docker, Kubernetes, Jenkins, CI/CD Pipelines

Testing & Automation: Unit Testing, Integration Testing, End-to-End Testing, Vitest, Jest, Cypress

Monitoring & Analytics: ElasticSearch, Sentry, Grafana, Radar.com

Tools & Collaboration: Git, GitHub, Bitbucket, Jira, Confluence, Agile/Scrum

## Professional Experience

### Senior Software Engineer — Clearco (Remote · Canadian-based company)

Apr 2023 – Present

- Led the modernization of the frontend stack, migrating from Node14, Vue2, vue-cli and Jest to Node20, Vue3+TS, Vite and Vitest, improving performance, maintainability and dev experience.
- Designing and developing distributed systems using Node.js, NestJS, and Vue.js.
- Built a custom feature flags platform replacing a paid solution, reducing infrastructure costs by 20%.
- Collaborated with cross-functional teams across Canada and the U.S., participating in a Toronto on-site in 2024.

### Senior Software Engineer — PayPal, Digital Trends, Clipboard Health (Remote · U.S.-based companies)

Feb 2021 – Mar 2023

- Developed APIs and optimized services using Node.js, React, and NestJS.
- Built mobile apps integrating geofencing for healthcare, improving professional payments workflow.
- Refactored APIs and services, reducing average response times by 35% and improving scalability.

### Software Architect — Trix TI (Brazil)

Jun 2015 – Feb 2021

- Led the development of a nationwide laboratory management platform for clinics and labs.
- Integrated PACS servers to streamline patient imaging and improved reporting workflows.
- Traveled across Brazil deploying systems and training teams in multiple states.

### Startup Founder — TechMission Acceleration Program, Silicon Valley

2013

- Selected to participate in Silicon Valley's TechMission 2013 program for startup acceleration.
- Networked with investors and entrepreneurs, gaining exposure to innovation ecosystems.

## Earlier Experience

Held multiple roles between 2001 and 2012, including Java Tech Lead Architect at TBA Group, Systems Analyst at NCT Informática and Politec Informática, Java Developer at CastMeta Informática, and Java Programmer at Unimed Confederação and Vivo. Delivered

enterprise-level solutions using Java, J2EE, JSF, RichFaces, JPA, WebServices, EJB, Hibernate, and Swing.

## Education

Postgraduate in Distributed Systems and Object Orientation — Universidade de Brasília (2007)

Bachelor's in Computer Science — Universidade Paulista (2005)

## Certifications

- JSNSD — Node.js Services Developer
- OCUP — UML Professional Fundamental
- SCEA — Sun Certified Enterprise Architect
- SCJP 5.0 — Sun Certified Java Programmer
- SCJP 1.4 — Sun Certified Java Programmer
- SCWCD — Sun Certified Web Component Developer
- SCMD — Sun Certified Mobile App Developer
- SCJA — Sun Certified Associate for Java Platform