

Jacob LeCoq

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PROFESSIONAL SUMMARY

Senior Software Engineer with deep experience in full-stack, DevOps, and platform engineering for large-scale web and cloud systems. Drove delivery of CI/CD standards, integrated AI tooling, and optimized AWS infrastructure, reducing costs and streamlining development for key commerce and digital platforms. Improved system reliability and developer productivity through strong technical leadership and automation. Ready to boost engineering performance and product value in future roles.

PROFESSIONAL EXPERIENCE

Dexian (Bayer) | *Senior Software Engineer*

Aug 2024 - Present

- Lead full-stack delivery across Bayer commerce platforms, contributing to a large Nx-based frontend monorepo and owning a production NestJS middleware API layer that powers multiple downstream applications.
- Act as DevOps lead for frontend and backend, define CI/CD standards with GitHub Actions and Docker, create release strategies and deployment guardrails used by several teams, resulting in faster and more reliable releases
- Design and implement AI-powered internal tools and agent workflows on Bayer's AI platform, automating ticket triage, code generation, and knowledge retrieval, which cuts manual engineering time by roughly half
- Built and integrated AI agents into internal systems (JIRA, repositories, documentation), enabling natural-language workflows and reducing manual engineering overhead.
- Develop reusable prompt patterns and agent templates using Rust and JavaScript, standardizing safe AI usage across teams and accelerating AI feature adoption
- Built a Go-based CLI tool for deployment orchestration, simplifying environment management, standardizing release workflows, and reducing manual deployment errors.
- Drove platform modernization work including TypeScript 6 and Node 24 upgrades, keeping shared applications and tooling current with minimal delivery disruption.
- Architected and maintained scalable middleware services in NestJS, enforcing service boundaries and API consistency, which improved system reliability and reduced inter-service latency
- Built and refined reusable CI/CD workflows and shared GitHub Actions for linting, testing, Docker builds, SonarQube, and release guardrails across multiple repositories, cutting build times and lowering integration errors
- Improved developer velocity by tightening type safety, linting, test standards, and local setup documentation used by shared product teams.
- Added pull request and deployment guardrails that reduced operational risk and increased confidence in production changes.
- Mentored engineers on AI-assisted development and platform best practices, improving team-wide adoption and engineering quality.
- Partner with product, design, and engineering peers to shape scope, unblock delivery, and turn recurring friction into reusable platform improvements.

DNAnexus | *Senior Software Engineer*

Oct 2023 - Aug 2024

- Led backend delivery for production Node.js and TypeScript services, shipping three major features on schedule.
- Reduced AWS spend by \$30K annually through cluster optimization, pricing-model changes, and more efficient compute orchestration.
- Designed secure cross-account AWS patterns for BYOA workloads using IAM, KMS, and Secrets Manager, enabling compliant customer data processing across accounts.
- Implemented Spot Instance orchestration to reduce compute cost and improve throughput for customer workloads.
- Raised backend quality by enforcing service boundaries, code review standards, and clearer contracts across modular services.

Bayer | *Senior Software Engineer*

Feb 2020 - Oct 2023

- Led full-stack engineering for Bayer digital platforms, building reusable React and Node.js systems adopted across multiple programs.
- Coordinated releases for a critical DMP application, improving deployment reliability and supporting zero-downtime delivery.
- Implemented AWS infrastructure automation with CloudFormation and Lambda, improving consistency and reducing manual operational work.
- Designed DynamoDB data models and indexes to improve query performance, correctness, and long-term maintainability.
- Improved production reliability through Datadog and CloudWatch monitoring, targeted defect reduction, and performance-focused service refactors.
- Helped define coding standards, PR expectations, and engineering practices that improved onboarding speed and code quality across the team.

Waitr | *Software Engineer*

May 2019 - Jan 2020

- Led AngularJS frontend delivery for internal applications that improved partner and support workflows.
- Translated Zeplin designs into reusable Angular components and directives, improving UI consistency and speeding feature assembly.
- Optimized Grunt builds and CircleCI pipelines, reduced deployment friction, and resolved production defects with targeted hot fixes.

CGI Federal | *Technical Consultant***Feb 2018 - May 2019**

- Built full-stack EPA features with Knockout.js and Spring Boot, shipping iterative releases on a predictable two-week cadence.
- Resolved cross-stack defects and redesigned service boundaries, improving stability and long-term maintainability.
- Worked directly with EPA stakeholders to deliver solutions aligned to agency policies, compliance expectations, and delivery priorities.

ASV Global | *Autonomous Systems Software Developer***May 2017 - Jan 2018**

- Developed C++ core systems and Qt interfaces for autonomous marine software, reducing operator steps by one third.
- Built winch-control logic, configured headless embedded systems, and calibrated instruments with Go and MATLAB to support reliable field operations.
- Applied code review, static analysis, QA testing, and Splunk-based log analysis to reduce regressions and speed defect isolation.

Perficient | *Associate Technical Consultant***Jun 2016 - May 2017**

- Delivered AngularJS and Java features for government clients, improving release cadence and application stability.
- Supported Jenkins pipeline deployments and Git branching strategies, performed server compliance tasks, and clarified requirements with clients and internal teams, which streamlined release processes and reduced deployment errors

EDUCATION

University of Louisiana at Lafayette | *Bachelor of Science, Computer Science***Lafayette, LA 2016****SKILLS**

- **Languages:** TypeScript, JavaScript, Java, Go, C++, SQL, Rust
- **Frontend:** React, Next.js, AngularJS, Electron, Tailwind CSS, Bootstrap, Material UI
- **Backend:** Node.js, NestJS, GraphQL, REST APIs, Spring Boot
- **Cloud / Data:** AWS, DynamoDB, PostgreSQL, Redis, MS SQL, Oracle
- **Platform / DevEx:** Nx, GitHub Actions, CI/CD, release engineering, monorepo tooling, developer experience, system design
- **AI / Platform Engineering:** AI Agents, Prompt Engineering, LLM Integration, Workflow Automation
- **DevOps / Tooling:** CI/CD Architecture, GitHub Actions, Deployment Automation, Go CLI Tooling
- **Leadership:** Architecture, cross-functional collaboration, mentoring, code review, technical guidance, operational reliability