

Claude Houle

Senior Java Developer & Backend Engineer

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Profile

Senior hands-on backend engineer with deep experience building enterprise Java systems, microservices architectures, and high-throughput data platforms. Strong focus on reliability, stability, testing, and pragmatic architecture across the Spring ecosystem and distributed systems.

Key Accomplishments

- Architected and delivered the Ibiza travel platform rebuild at Accovia — Java/Spring/Hibernate backend serving major travel operators, delivered on time after critical client recovery
- Built backend services for 8D Technologies' Solstice platform — Java system processing real-time events from Bixi bike-sharing kiosks deployed across cities worldwide
- Designed backend architecture for CAE's pilot training platform at Spiria — Spring Boot APIs, data modeling, and integration strategies supporting aviation compliance requirements
- Built core infrastructure services at Mediagrif adopted across multiple e-commerce product teams — reusable data access layers, service components, and API patterns

Technical Skills

Backend Expertise

Languages: Java (expert), Kotlin, SQL, TypeScript, Python

Frameworks: Spring Boot, Spring Security, Hibernate/JPA, REST APIs, Microservices

Data: PostgreSQL, MySQL, Oracle, DB2, Redis, ActiveMQ

Architecture & DevOps

Architecture: Domain-Driven Design, CQRS, Event Sourcing, API Design, System Integration

CI/CD: Docker, Kubernetes, Jenkins, GitLab CI, GitHub Actions

Testing: JUnit, Mockito, Integration Testing, TDD, Contract Testing

Gen AI: Claude integration (code & test acceleration)

Leadership & Methodologies

Leadership: Mentorship, Code Reviews, Technical Documentation, Onboarding

Methods: Agile (Scrum/Kanban), TDD, Continuous Integration

Spoken: French and English (fully bilingual)

Professional Experience

Poka Inc.

2021 — Present

Lead Developer

Senior developer on a connected worker platform serving 200,000+ DAU. Designed REST API contracts and data synchronization strategies bridging frontend and backend teams.

- **API Architecture:** Designed REST API contracts enabling seamless interoperability between mobile clients and backend microservices — adopted as the standard across frontend and backend teams
- **Cross-Team Standards:** Established shared engineering standards, code review practices, and API conventions across frontend and backend development teams
- **Data Synchronization:** Architected data sync strategies for offline-first mobile clients — ensuring consistency and reliability across distributed services
- **Technical Mentorship:** Provided technical mentorship and training on architecture patterns and best practices for 20 developers — operational within 3 months

Appcom

2019 — 2021

Lead Mobile Developer

Led technical architecture and API integration across 15+ client projects in healthcare, media, and retail sectors.

- **Component Libraries:** Designed shared component libraries and architectural patterns adopted across multiple project teams
- **API Integration:** Led integration efforts with various backend systems — established patterns for error handling, caching, and offline support
- **Technical Mentorship:** Coached developers through code reviews and knowledge-sharing sessions on architecture and design patterns

Spiria Digital

2013 — 2019

Senior Software Developer

Senior developer for enterprise client engagements. Led backend architecture design, API contracts, and data modeling for complex multi-tier systems.

- **CAE PreStudy:** Designed backend architecture with Spring Boot, RESTful APIs, and data persistence layer for aviation pilot training
- **Acosta SLTouch:** Architected Node.js backend services and data aggregation pipelines for retail analytics platform
- **Skillable:** Delivered backend services for Progressive Web App micro-learning platform using TypeScript and Node.js
- **Solution Architecture:** Translated business requirements into API contracts, data models, and integration strategies

8D Technologies

2009 — 2013

Back-End Java Developer → iOS Developer

Backend engineer for urban mobility systems (Bixi). Built event-driven Java services processing real-time data from bike-sharing kiosks deployed across major cities.

- Event-Driven Services: Built Java services for Solstice using event-driven architecture — real-time transaction processing, station state management, and availability APIs
- Data Pipelines: Designed high-throughput pipelines processing telemetry from solar-powered POS kiosks (London, NYC) — event sourcing for station state tracking and availability
- Full-Stack Transition: Transitioned to iOS development, bringing backend expertise that bridged system layers and improved API design

Accovia

2007 — 2009

Back-End Java Developer — Architecture Team

- Platform Rebuild: Rebuilt Ibiza travel platform with Java/Spring/Hibernate after critical client recovery — service architecture, data access patterns

Compuware Montreal

2005 — 2007

Java Consultant (Morgan Stanley)

- Mainframe Migration: Libra project — migrated COBOL batch processing and data pipelines to Java/DB2 with event-driven integration patterns; financial compliance, globally distributed team

Mediagrif

2003 — 2005

Java Developer

- Core Services: Built core backend services and shared infrastructure patterns adopted by multiple e-commerce product teams

Education

Computer Science Technology *Cégep Édouard-Montpetit, Longueuil, QC*

2003

Three-year practice-oriented diploma covering C, C++, Java, SQL, Linux, and applied computing.

Capstone project: End-to-end development of an e-commerce website for an SMB.