

Claude Houle

Full-Stack Developer & Software Architect

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Profile

Software developer with 23+ years of experience across backend systems, mobile platforms, and web applications. Proven ability to architect and deliver production software spanning the full stack — from Spring Boot backends and Angular frontends to native iOS and Android clients — with a focus on quality, mentorship, and continuous improvement.

Key Accomplishments

- Led a production iOS app serving 200,000+ DAU with 99.999% crash-free rate across a 450K-line Swift codebase
- Architected full-stack solutions at Spiria: CAE's pilot training platform (Spring/Angular/iOS) and Acosta's retail analytics platform (Node.js/BackboneJS)
- Led end-to-end development of a visionOS-native app — 1st Connected Worker Solution on the visionOS App Store, securing an Apple Vision Pro Dev Kit
- Integrated CI/CD pipeline improving build speeds by 50% and increasing deployments from 1/week to 4/day through full App Store automation
- Doubled test coverage (30% → 60%) over four years through disciplined, incremental growth alongside codebase modernization

Technical Skills

Technical Expertise

Languages: Java, Swift, Kotlin, TypeScript, SQL, Python

Backend: Spring Boot, Hibernate, Node.js, PostgreSQL, MySQL

Frontend: Angular, React, SwiftUI, UIKit

Mobile: iOS SDK, visionOS SDK, Android SDK, Combine

Architecture: REST API Design, MVVM, SOLID, Microservices, Clean Architecture

DevOps & Tools

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

Testing: JUnit, Mockito, XCTest, Swift Testing, Jest

Gen AI: Claude integration (code & test acceleration)

Leadership & Methodologies

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

Spoken: French and English (fully bilingual)

Professional Experience

Poka Inc.

2021 — Present

Architect, Lead iOS & VisionOS

Technical leader for a connected worker platform serving 200,000+ DAU. Driving full-stack evolution across mobile clients and backend integrations while ensuring 99.999% stability.

- Operational Excellence: Major refactoring of 450K-line codebase — raised stability to 99.999% crash-free and doubled test coverage (30% to 60%)
- CI/CD Performance: Migrated pipeline to MacStadium, accelerating builds by 50% and enabling 4 daily releases (up from 1/week)
- Team Leadership: Recruited and trained a distributed team of 20 developers internationally — operational within 3 months
- AI Integration: Optimized workflows through adoption of generative AI tools (Claude, Warp), reducing development time by 10%

Appcom

2019 — 2021

Lead Mobile Developer

Led technical delivery of mobile solutions for major clients in healthcare, media, and retail. Managed full development cycles for brands like Metro, Super C, and Le Devoir.

- Technical Standardization: Designed shared iOS framework for 15+ client projects — reduced code duplication and development effort by 50%
- Major Deliveries: Technical leadership for flagship applications (Metro & Moi, Biodome de Montreal, AbbVie) from design to deployment
- Automation: Implemented CI/CD pipelines (MacStadium) for the entire client portfolio, industrializing release processes
- Mentorship: Coached junior developers and led knowledge-sharing sessions to raise overall technical proficiency

Spiria Digital

2013 — 2019

Software Architect, Senior Developer

Solution architect for custom software engagements spanning backend, frontend, and mobile. Led technical discovery, architecture design, and delivery for enterprise clients.

- CAE PreStudy: Designed end-to-end architecture spanning Spring backend, Angular frontend, and native iOS for aviation pilot training
- Acosta SLTouch: Built hybrid mobile app and framework for retail analytics using BackboneJS/MarionetteJS and Node.js
- Skillable: Delivered Progressive Web App for micro-learning using Angular and TypeScript
- Solution Architecture: Translated business requirements into API contracts, data models, and integration strategies

8D Technologies

2009 — 2013

Back-End Java Developer → iOS Developer

Pioneer in urban mobility software (Bixi) within a team combining hardware and software. Built backend systems and mobile clients for city-wide deployments.

- Full-Stack Transition: Started on backend Java team for Solstice bike-sharing suite; transitioned to iOS bringing backend expertise
- International Deployment: Developed Spotcycle and Solstice apps, deployed successfully in London and New York City
- AR Innovation: Pioneered first-ever Augmented Reality bike-sharing finder combining live camera feed with Core Location data

Accovia

2007 — 2009

Back-End Java Developer

- Platform Recovery: Architecture Team member on Ibiza Project — rebuilt travel platform with Java/Spring/Hibernate after critical client recovery

Compuware Montreal

2005 — 2007

Java Consultant (Morgan Stanley)

- Mainframe Migration: Migrated legacy systems to Java services on Libra project; globally distributed team (NY, Budapest, Tokyo)

Mediagrif

2003 — 2005

Java Developer

- Infrastructure Services: Built core services and reusable components on Software Infrastructure team for e-commerce products

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.