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 spanning Spring backends, Angular frontends, and native iOS — including CAE's aviation pilot training platform

- 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 · Docker
Frontend	Angular · React · SwiftUI · UIKit
Mobile	iOS SDK · visionOS SDK · Android SDK · Combine

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

Architecture	REST API Design · MVVM · SOLID · Microservices · Clean Architecture
Methods	Agile (Scrum/Kanban) · TDD · Continuous Integration
Spoken	French and English (fully bilingual)

PROFESSIONAL EXPERIENCE

Poka Inc. *Architect, Lead iOS, Lead VisionOS*   2021 — Present

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), reducing development time by 25%

Appcom *Lead Mobile Developer*   2019 — 2021

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 *Software Architect, Senior Developer*   2013 — 2019

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 *Back-End Java Developer → iOS Developer*   2009 — 2013

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 *Back-End Java Developer*   2007 — 2009

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

Compuware Montreal *Java Consultant (Morgan Stanley)*   2005 — 2007

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

Mediagrif *Java Developer*   2003 — 2005

- 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.