

Claude Houle

Software Architect & Technical Leader

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Profile

Software architect with 23+ years of hands-on experience designing and delivering systems across backend, mobile, and web. Proven leadership in solution architecture, team transformation, mentorship, and cross-functional collaboration. Combines deep technical breadth with a product-minded approach to align engineering with business outcomes.

Key Accomplishments

- Transformed an 8-person iOS team into a high-performing unit — crash-free rate to 99.999%, deployments from 1/week to 4/day, build speeds improved 50%
- Led architecture of a visionOS-native app — 1st Connected Worker Solution on the visionOS App Store, securing an Apple Vision Pro Dev Kit
- Onboarded and integrated 20 developers internationally — designed training curriculum and built collaborative culture across time zones, productive within 3 months
- Architected CAE's pilot training platform end-to-end: Spring backend, Angular frontend, and native iOS client
- Delivered the Accovia Ibiza platform rebuild on time and on budget after a critical client recovery — as a member of the core Architecture Team

Technical Skills

Architecture & Design

Disciplines: Solution Architecture, API Design, System Integration, Data Modeling, Distributed Systems

Patterns: Microservices, Event-Driven, CQRS, Clean Architecture, SOLID

Technical Stack

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

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

Mobile/Web: iOS SDK, visionOS SDK, SwiftUI, Android SDK, Angular

Leadership & DevOps

Leadership: Team Mentorship, Code Reviews, Technical Discovery, Onboarding

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

Gen AI: Claude integration (code & test acceleration)

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

Spoken: French and English (fully bilingual)

Professional Experience

Poka Inc.

2021 — Present

Architect, Lead iOS, Lead VisionOS

Technical architect for a connected worker platform serving 200,000+ DAU. Leading architectural evolution, team transformation, and cross-functional alignment across a 450K-line codebase.

- Architecture Leadership: Introduced internal tools, reusable libraries, and standardized practices — achieved 99.999% crash-free rate
- Team Scaling: Onboarded 20 developers internationally with custom training curriculum and cross-timezone code reviews — operational within 3 months
- Cross-functional Alignment: Bridged engineering, Product Management, and UX Design; established collaboration workflows aligning technical solutions with business goals
- CI/CD Architecture: Automated App Store deployments end-to-end; increased release cadence from 1/week to 4/day, improved build speeds by 50%
- Quality Engineering: Increased test coverage from 30% to 60% over four years through incremental testing alongside architectural modernization

Appcom

2019 — 2021

Lead Mobile Developer

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

- Technical Standardization: Designed shared iOS framework for 15+ client projects — reduced code duplication and development effort by 50%
- Process Improvement: Identified communication gaps between teams; established processes and tools improving alignment with product and UX
- Team Development: Invested in mentorship and knowledge-sharing sessions, developing junior engineers into independent contributors

Spiria Digital

2013 — 2019

Software Architect, Senior Developer

Solution architect responsible for initial architecture design and evolution across enterprise client engagements. Led technical discovery, requirements analysis, and delivery.

- Solution Architecture: Led requirements analysis, technical discovery, and produced API contracts, data models, and integration strategies
- CAE PreStudy: Designed end-to-end architecture spanning Spring backend, Angular frontend, and iOS client for aviation pilot training
- Architecture Artifacts: Produced documentation covering security considerations, scalability approaches, and deployment topologies
- Engineering Standards: Defined standards and mentored developers across multiple project teams, raising overall code quality
- Acosta SLTouch: Architected hybrid mobile framework for retail analytics using BackboneJS and Node.js

8D Technologies

2009 — 2013

Back-End Java Developer → iOS Developer

Pioneer in urban mobility architecture (Bixi) within a team combining hardware and software. Designed systems for city-wide deployments under real-world constraints.

- System Architecture: Started on backend Java team; transitioned to iOS bringing backend expertise that bridged system architecture across layers
- Scalability Solutions: Engineered solutions for challenging connectivity and performance constraints in London and NYC deployments
- 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 — Architecture Team

- Platform Architecture: Rebuilt Ibiza travel platform with Java/Spring/Hibernate after critical client recovery — performance optimization and service orchestration

Compuware Montreal

2005 — 2007

Java Consultant (Morgan Stanley)

- Migration Architecture: Libra project — migrated mainframe to Java under financial compliance requirements; globally distributed team

Mediagrif

2003 — 2005

Java Developer

- Infrastructure Architecture: 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.