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%

- 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

Architecture	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. *Architect, Lead iOS, Lead VisionOS*   2021 — Present

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

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Appcom *Lead Mobile Developer*   2019 — 2021

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

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Spiria Digital *Software Architect, Senior Developer*   2013 — 2019

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

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8D Technologies *Back-End Java Developer → iOS Developer*   2009 — 2013

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

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Accovia *Back-End Java Developer — Architecture Team*   2007 — 2009

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

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

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

Mediagrif *Java Developer*   2003 — 2005

- 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.