



Claude Houle

Full-Stack Developer & Software Architect

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PROFILE

Software developer with 21+ 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

Languages

Java Swift Kotlin TypeScript SQL Python

Backend

Spring Boot Hibernate Node.js PostgreSQL MySQL Docker

Frontend

Angular SwiftUI UIKit

Mobile

iOS SDK visionOS SDK Android SDK Combine

DevOps

CI/CD Pipelines GitHub Actions Fastlane Sentry LaunchDarkly

Testing

JUnit Mockito XCTest Swift Testing Jest

Practices

REST API Design MVVM SOLID Software Architecture Claude Code

Also

Objective-C JavaScript AngularJS Oracle DB2 Vagrant

PROFESSIONAL EXPERIENCE

Poka Inc. Architect, Lead iOS, Lead VisionOS

Oct 2021 — Present

Connected worker platform with 200,000+ DAU helping manufacturers improve productivity and knowledge sharing on the factory floor.

- Inherited a fragile 450K-line codebase with frequent crashes; introduced internal tools, reusable libraries, and standardized practices that raised the crash-free rate to 99.999%
- Faced slow, manual releases; built a CI/CD pipeline on MacStadium that improved build speeds by 50% and increased deployments from 1/week to 4/day
- Needed to scale the team fast; onboarded 20 Sri Lankan developers with a custom training curriculum, making them productive within 3 months
- Tackled low test coverage (30%); drove incremental testing alongside refactors, reaching 60% coverage over four years
- Adopted AI-assisted tools (Claude, Warp.dev) into the iOS team workflow, reducing coding time by 10%

Mobile development studio developing and maintaining applications for clients across retail, healthcare, media, and mobility.

- Managed 15+ concurrent client projects with duplicated effort across teams; designed a shared iOS framework of documented, unit-tested components that reduced duplication and improved time-to-market
- Led the iOS team through full project lifecycles — planning, development, code review, and release — for Metro & Moi, Super C, FoodBasics, AbbVie, Le Devoir, Biodome de Montreal, Christies, TaxiCoop, and others

Custom software agency — led solution architecture across multi-platform client engagements.

- Owned solution architecture for client engagements; translated business requirements into API contracts, data models, and integration strategies that guided development teams
- CAE PreStudy: designed end-to-end architecture spanning Spring backend, Angular frontend, and native iOS for an aviation pilot training platform
- Acosta SLTouch: built a hybrid mobile app and framework for retail analytics using BackboneJS/MarionetteJS and Node.js
- Skillable: delivered a Progressive Web App for micro-learning using Angular and TypeScript

Software and hardware for bike-sharing and automated parking systems, including solar-powered POS stations and backend platforms.

- Started on the backend Java team for the Solstice bike-sharing suite; transitioned to iOS, bringing backend expertise that bridged system layers
- Developed the Spotcycle and Solstice iOS apps, supporting city-wide deployments in London and New York City
- Pioneered the first-ever Augmented Reality bike-sharing finder by combining live camera feed with Core Location data

- Joined the core Architecture Team on the Ibiza Project after a critical client recovery; helped rebuild the platform from the ground up with Java, Spring, and Hibernate, delivering on time and on budget

- Assigned to Morgan Stanley's Libra project to migrate COBOL on z/OS to Java services on Linux with DB2; worked within a globally distributed team across New York, Budapest, Tokyo, and Vancouver

- Joined the Software Infrastructure team; built core services, reusable components, and data access layers adopted by multiple e-commerce product teams

EDUCATION

Three-year practice-oriented diploma covering C, C++, Java, SQL, Linux, and applied computing — comparable to a U.S. associate degree in computer science.