



# 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

#### Additional

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.