Claude Houle

Full-Stack Developer & Software Architect

claude.houle@gmail.com | Montreal, QC | choule99.github.io/me

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

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   Oracle   DB2

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.

- Improved stability of a 450K-line codebase; introduced internal tools, reusable libraries, and standardized practices — achieved 99.999% crash-free rate

- 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) into the iOS team workflow, reducing coding time by 25%

Appcom *Lead Mobile Developer*   Nov 2019 — Oct 2021

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

- Designed shared iOS framework for use across 15+ client projects; reduced code duplication and development effort by 50%
- Led the team in adopting a new development methodology; accelerated delivery cycles and improved quality — increased client satisfaction by 40%

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

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

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

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

Accovia *Back-End Java Developer*   Oct 2007 — Oct 2009

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

Compuware Montreal *Java Consultant — Morgan Stanley*   Oct 2005 — Oct 2007

- Migrated legacy mainframe systems to Java services on the Libra project; globally distributed team (NY, Budapest, Tokyo, Vancouver)

Mediagrif *Java Developer*   May 2003 — Oct 2005

- Built core services and reusable components on the 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.