Charles Hopman

Senior Software Engineer – Flutter

Ottawa, Canada · charleswhopman@gmail.com · +1 (613) 220-9413
github.com/CharlesHopman · linkedin.com/in/charles-hopman-2b67aa145

SUMMARY

Software engineer with 6+ years of professional mobile and cross-platform experience, including native iOS (Swift, Objective-C). Has worked with Flutter since university and shipped it professionally for 5+ years across Web, Desktop, iOS, Android and Huawei, the last two in Ottawa building cloud-native security platforms. Has led front-end teams of up to 8 developers and run up to four client projects at once across fintech, aviation and telecom. Built People's Pay, a banking wallet that reached the top 3 finance apps in Sri Lanka within 3 days of launch and now has 1M+ downloads on Google Play.

SKILLS

- **Cross-platform and mobile:** Flutter, Dart, Swift, Objective-C; Web, Desktop, iOS, Android, Huawei
- **Architecture and data:** Riverpod, go_router, freezed, GraphQL, RESTful APIs, reusable Flutter packages
- **Payments and security:** CyberSource, LankaPay (JustPay, CEFTS, LPOPP, LankaQR), OWASP mobile standards, SSL pinning, secure storage, code obfuscation
- **Tooling and delivery:** Git, CI/CD (GitHub Actions, Codemagic), AWS (Certified Cloud Practitioner), Claude Code, localization pipelines
- **Testing:** unit, widget and integration tests with flutter_test and mocktail
- **Leadership:** leading teams of up to 8 developers, client requirements gathering, Agile/Lean delivery

WORK EXPERIENCE

Acre Security — Ottawa, Canada
UI Engineer – Flutter — February 2026 – Present

- Architected and built a **custom Flutter data grid package** (sorting, filtering, pagination) for a cloud-native access control platform on Web, Desktop and Mobile, replacing the paid Syncfusion data grid, removing the licence cost and allowing in-house customization. It **replaced all 30+ tables** in the app, giving one consistent look and behaviour in place of separate implementations built by different teams.
- Established an automated localization pipeline across **11+ languages** by deploying a self-hosted translation platform with standardized glossaries and quality checks.
- Substantially increased tickets completed per sprint by running parallel Claude Code agents on separate tasks for boilerplate, test scaffolding and legacy refactoring.
- Unblocked legacy desktop releases by diagnosing and fixing C# and WPF defects outside the primary stack, shipping verified fixes independently.

Wavestore — Ottawa, Canada
Intermediate Software Developer II – Flutter — September 2024 – February 2026

- Owned the Flutter front end of **WaveFusion**, a new Flutter app built from scratch that brings cloud-based access control and video management (VMS) together in one unified security platform, as its primary developer, working alongside a separate two-person video team; the product launched publicly in February 2026.
- Rebuilt the Flutter Web client's state management on **Riverpod** with a GraphQL data layer and immutable freezed data models, replacing inconsistent state handling and deep inheritance hierarchies.
- Implemented URL-based navigation with **go_router** so every screen has its own address, replacing a single-URL app, and fixed session handling so opening a new tab no longer forces a second login.
- Set the team's coding standards and redesigned the app around one consistent theme.

Arimac Lanka (Private) Limited Colombo, Sri Lanka

March 2021 – August 2024 · promoted twice

Software Engineer III – Flutter & iOS December 2022 – August 2024

- Led front-end **teams of up to 8 developers**: assigned the work, set the project structure, trained the team on best practices and held delivery to deadline.
- Ran up to **four client projects at once** with 4–6 developers in total, guiding each project's developers, checking the quality of deliverables, gathering requirements directly from customers and shaping solutions with cross-functional teams.
- Took over the **SriLankan Airlines mobile app (1M+ downloads on Google Play)** midway through the project and led it to completion; also contributed as an iOS Swift developer to the revamp of Etihad Airways' Etihad Guest app.
- Built a reusable Flutter package for the CyberSource internet payment gateway (IPG), ready to integrate into any app.
- Hardened mobile apps to OWASP standards with SSL pinning, secure data storage and code obfuscation.

Software Engineer II – Flutter July 2021 – December 2022

- Engineered a FinTech eKYC and vKYC solution as a Flutter package that renders and validates dynamically from network responses.
- Contributed to telecom super apps for **Ooredoo Algeria (10M+ downloads on Google Play)** and Ooredoo Maldives (1M+).
- Led the revamp of an international FinTech mobile app for The Social Loan Company (TSLC).

Software Engineer I – Flutter March 2021 – July 2021

- Built Arimac's first wallet app, People's Pay, as primary mobile developer for one of Sri Lanka's largest commercial banks. It reached the **top 3 finance apps in Sri Lanka within 3 days** of launch and now has 1M+ downloads and a 4.7 rating on Google Play.
- Delivered the app in Flutter for Android, Huawei and iOS with biometrics, location services and push notifications, and published it to Google Play, the Apple App Store and Huawei AppGallery.
- Integrated LankaPay national payment services (JustPay, CEFTS, LPOPP, LankaQR) into the app.

Epic Lanka (Private) Limited Colombo, Sri Lanka

Intern iOS Engineer September 2020 – March 2021

- Contributed to iOS development of FriMi, one of Sri Lanka's largest wallet apps.
- Revamped the Life GAS and Smoke Detector iOS app, adding light and dark themes.
- Migrated legacy Objective-C code to Swift using a bridging header.

EDUCATION

BSc (Hons) Software Engineering, First Class Honours 2017 – 2020

University of Plymouth, England

- Built university projects in Flutter, including an IoT control app and an e-commerce app.

General Foundation in Business and IT 2016 – 2017

Asia Pacific Institute of Information Technology (APIIT), Sri Lanka

CERTIFICATION

AWS Certified Cloud Practitioner (CLF-C02) 2025