

Tom Friml

Mobile software engineer

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Tom Friml in
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Work experience & qualification

Current	<p>Mobile consultant</p> <p>Providing mainly consultancy and development services in mobile space. My speciality are cross platform Flutter apps interacting with custom made hardware products, blockchains or other services.</p>
2021–2023	<p>Mobile chapter lead The Next Chapter Studio, Auckland (remote)</p> <p>Oversaw a mobile team and ensure that we were delivering high-quality mobile applications in crypto space to meet the needs of our customers. My daily responsibilities included collaborating with stakeholders to understand their requirements and working with my team to design and develop mobile applications that are intuitive, responsive, and feature-rich.</p> <ul style="list-style-type: none">• Sidekick by NCS - crypto wallet and NFT education tool.• Xeonon Broadcaster - live broadcast app.• SplashCrypto - chatting app for crypto space.
2020–2021	<p>Senior software engineer - Mobile apps Clearpoint Limited, Auckland (remote)</p> <p>Involved in starting Flutter consultancy division within Clearpoint.</p> <p>Provided various mobile consultancy services:</p> <ul style="list-style-type: none">• Initial prototype for Serko new travel companion app. Flutter.• Implemented Store Directory feature along with various other fixes and improvements. Zip Pay client, Flutter.• Built a prototype of brand new Global Diary Trade app. Flutter.
2019–2020	<p>Senior mobile engineer Wellington Drive Technologies Ltd., Auckland (remote)</p> <p>Involved in producing and maintaining native and hybrid apps for the company clients.</p> <ul style="list-style-type: none">• Developed Flutter native plugin to enable our native code to work with cross-platform client Flutter apps.• Implemented various practises for code hygiene which helped with memory issues and random crashes.• Refactored iOS native SDKs to create a unified interface to be used by 3rd party software.• Refactored large part of SDK which controls lighting, temperature and other custom "soft" modes which previously depended on hard coded configuration.
2019	<p>Independent contractor inMusic, Auckland (remote)</p> <p>Contracted to research a way of utilising existing very large code base in C++/Qt to be reused in iOS app. The goal was to create an iOS app prototype.</p> <ul style="list-style-type: none">• Managed to get one of the inMusic desktop app to run on a mobile device with limited functionality.

2018	<p>Senior iOS engineer Digital Surgery, London (remote)</p> <p>Hired as a member of a small team focused on designing and developing GoSurgery app for App store release. Tech stack was iOS/Swift/RxSwift/Realm.</p> <ul style="list-style-type: none"> • Created Perform feature of GoSurgery app which has greatly increased user adoption. • Significantly increased app performance by eliminating memory leaks and misuse of dispose bags. • Analysed the code base and created procedure for enforcing code hygiene and coding standards.
2016–2018	<p>Senior mobile engineer Syrp, Auckland</p> <p>Recruited to take over the Genie App - legacy app for controlling Genie family products. Tech stack included iOS/ObjectiveC(++)/Swift/RxSwift/WiFi/BLE/Realm.</p> <ul style="list-style-type: none"> • Significantly decreased GenieApp crash rate, increased app performance and stability. • Designed and implemented new GenieApp II - complete rewrite of the original app. • Implemented various custom UI widgets which made the app unique. • Designed and implemented OTA firmware update mechanism. • Involved in development of the C++ library for core (cross platform) functionality.
2012–2016	<p>Senior software engineer Navico, Auckland</p> <p>Initially joined the team to work on multifunction displays and radars, later on GoFree Hooked and GoFree Link apps. Tech stack C/C++/Qt/ObjC/Swift/MapBox/Realm/WiFi.</p> <ul style="list-style-type: none"> • Significantly increased motor efficiency for Pulse compression radar • Increased Mercury customers adoption by adding support for their engines. • Created a prototype for measuring fish size - easier and faster to use the app in competitions. • Took charge of internal knowledge sharing seminars and created Q&A platform within the company.
2007–2012	<p>Senior analyst programmer Pulse Utilities, Auckland</p> <p>Hired to lead the creation of a new system for monitoring and controlling Smart Meter devices. Later worked on NextGen smart meter devices. Tech stack included C/C++/Boost/Perl/ASM(8051).</p> <ul style="list-style-type: none"> • New system greatly increased data availability and throughput. • Automated tedious tasks of communicating with the Electricity Registry. • Created data aggregation tools which allowed other departments to use them more efficiently.
2005–2007	<p>Software engineer Acision, Brno</p> <p>Joined the Business Tools team and was responsible for the main LOAD component.</p> <ul style="list-style-type: none"> • Increased data throughput of the system helping to maintain real time customer care.
2003–2005 contract	<p>Researcher/developer Hoelle & Huettner AG, Tübingen</p> <p>Recruited for research project for optimisation of ecotoxicological test methods for routine use. Tech stack ObjectPascal/BioLane.</p> <ul style="list-style-type: none"> • Created modules allowing users to describe, compare and evaluate different soil samples.
2002 contract	<p>Developer ZMBP, Tübingen</p> <p>Hired by the university to help them automate some of their processes. Tech stack PHP/LAMP.</p>

Portfolio

Ever-growing list of packages and other projects - check out my Github profile ([🔗 3ph](#)).

List of my newest apps.

Sidekick by NCS	The ultimate solution for safe and hassle-free digital asset transactions. With our non-custodial approach, you can send and receive your favorite digital assets from anywhere, at any time. Flutter for iOS/Android.
Xeenon	Live broadcaster app for decentralized video platform that gives power back to artists. You are in full control of how your creative work is monetized while connecting directly with fans. Flutter for iOS/Android.
SplashCrypto	Chatting app with specific crypto features. Splash is designed to make it easier and more powerful to talk crypto with your IRL and URL friends. Flutter for iOS/Android.
ShadowSpec	Control your ShadowSpec umbrella with your phone. BLE control of the smart battery and lighting. Flutter.
Pixpix	Pixpix lets you quickly and easily order high-quality prints of your favourite photos, right from your phone. Flutter.
SLSNZ Patrol	An electronic patrol and incident management tool for SLSNZ lifeguards. Flutter.
NF/DBVending	Custom made app for TCN vending machines to replace default vending UI. UI part was written using Flutter while low level control of the machine and payment terminals is Kotlin/Java. Android/Flutter.
myCooler	Custom app for Coke AU intended for monitoring and control of their fridges. Communicates with the controllers using BLE. iPhone/iPad.
SKOPE-connect	Mobile app for monitoring and control of SKOPE commercial fridges. Communicates with the controllers using BLE. iPhone/iPad.
Go Surgery	Digital Surgery app allows you to document your surgical workflows and share these with your team to ensure that your team performs at the highest level. Utilises Touch Surgery surgical training platform. iPhone/iPad.
Syrp Genie	Official app for controlling Genie Mini (and Genie) devices. Setup your timelapse, video or panorama and have the Genie products do the work for you. iPhone/iPad.
GoFree Hooked	Fishing app with support for social fishing, organizing fishing competitions, recording your fishing trips and catches. iPhone/iPad.
Link Pro	System configuration tool for Navico product networks. iPhone/iPad.
Fridge Alarm	Fridge Alarm helps you keep track of your groceries. Stop grocery waste. Check your must-haves groceries. Get notifications when products expire or you are running low. iPhone/iPad.

Education

2002–2005	Master in Computer Science Major: Numerical and parallel computations Diploma thesis: Expert systems and result ranking Faculty of Informatics, Masaryk University, Brno
1999–2002	Bachelor in Computer Science Major: Mathematics-informatics Faculty of Informatics, Masaryk University, Brno

Certification

| NZ Day Skipper certificate

Volunteer work

| Volunteer in Czech School Auckland (since 2015)
| Committee member in Czech and Slovak Society Auckland (since 2009)
| Volunteer in TAP:lab makerspace (since 2016)
| Scout leader in Warkworth Scout Group (since 2020)