

Tom Friml

Full stack mobile developer

tom@tomfriml.com ✉
+64 224610162 ☎
Tom Friml in
tomfriml.com 🌐
Auckland, New Zealand 📍

Work experience & qualification

- 2019 **Senior mobile engineer**
Wellington Drive Technologies Ltd., Auckland (remote)
Focusing mainly on producing new apps for the company clients, maintaining client SDKs and existing apps.
- 2019 **Independent contractor**
inMusic, Auckland (remote)
Contracted to research a way of utilising existing very large code base in C++/Qt to be reused in iOS app. Current goal is to create an iOS app prototype.
- 2018 **Senior iOS engineer**
Digital Surgery, London (remote)
Hired as member of a small team focused on designing and developing GoSurgery app for App store release. Tech stack was iOS/Swift/RxSwift/Realm.
 - 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 **Senior mobile engineer**
Syrp, Auckland
Recruited to take over the Genie App - legacy app for controlling Genie family products. Tech stack included iOS/ObjectiveC(++)/Swift/RxSwift/WiFi/BLE/Realm.
 - 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 **Senior software engineer**
Navico, Auckland
Initially joined 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.
 - 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 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 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> <ul style="list-style-type: none"> • Created several web applications which significantly increased effective use of laboratory equipment, human resources planning and better department management.

Portfolio

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

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.
Play portal	Real world gaming application and platform as users take on the assumed role of a secret agent in order to make progressive changes to the world and make it a better place. 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.

FuelWatchNZ	Crowdsourced fuel prices monitoring for New Zealand. Search fuel stations near you for the best price. Parse backend, iPhone/iPad.
Librarianist	Mobile version of Librarianist service – delivers best book prices. Support for text based search or scan the ISBN using your camera. Delivers detailed information about the book and best suppliers. Communicating to backend through REST API/JSON. iPhone/iPad.
Automate	Mobile support tool for vehicle rental companies. Features creating and editing vehicle rental reports with detailed damage recording UI tool. Supports adding photos, export to PDF and automatic distribution to clients through email. Enterprise distribution, iPad.
MyBits	Application to monitor user’s broadband plan status. Supported graphs, usage warning. Originally developed for Android, later ported to iOS.

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)