

# Millturn IT – intelligent scientific software

[www.millturn.com.au](http://www.millturn.com.au)



Millturn IT Pty Ltd is a small software house specialising in intelligent, affordable and reliable software to help scientists and farmers make more informed decisions based on real data and the latest scientific thinking. Our software learns and improves. Domain experts in ICT, market gardening, natural sciences and history, we write software which is accessible, responsive, reliable and robust. We also offer analysis and software development consultancy services.

## Responsive Web applications

Links:

- SPQR: <https://spqr.millturn.com.au>
- Tree Stories: <https://treestories.millturn.com.au>.
- May Mills biography: <http://maymills.millturn.com.au>
- The HEAT tool (Home Energy Assessment Tool) for start-up DepositEnergy.

We develop using an Object-Oriented form of Javascript called Typescript. We use the MEAN stack (the NoSQL database MongoDB, Express, Angular and Node) as our technology stack and deploy to the Cloud for you.

## General Capabilities

### Modelling and Predictive Data Analytics

Our software integrates diverse datasets and produces advice using proven models and algorithms. Models are then refined using real-world results so the system can learn and improve.

### Full stack Web Development, Mobile applications and Cloud hosting

From user interface design to the middle business model tier and through to the server-side and database back-end and deployment to the Cloud, we do it all.

### A disciplined approach to development: analysis, development, testing, DevOps practices

System and business analysis: solution design, requirements analysis; user interface design; wire-framing/prototyping and usability testing

Testing: unit testing, automated functional testing (using the Protractor framework), Web services testing (using Mocha/Chai).

Automation of builds within, and deployment via pipelines to, all environments.

### Mentoring

Mentoring schemes (one-on-one or groups) in business analysis, architecture and Web development, combined, if desired, with a tailored curriculum.

Category	Property	Description
Performance efficiency	Time behaviour	The system should perform any CRUD (Create Read Update) operations within <insert ideal time> seconds.
Reliability	Availability	The system must be available (99.99% of the time) for use during business hours (7am to 7pm Monday to Friday) excepting...

## Mobile applications

Links:

- Woden Valley walks: <https://play.google.com/store/apps/details?id=com.millturn.trailguide&hl=en>
- Garden Assistant: <https://play.google.com/store/apps/details?id=com.millturn.gardenassistant&hl=en>

Cross-platform mobile application development via a generator allows us to save development time by writing once (in Typescript) and then generating native apps for Android and iOS devices. However, native Android and iOS development is also possible.



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