

Phil de Joux - Software Developer

Educated in Computer Graphics 1996, Mathematical Modeling BSc Hons 1993/5 and Medicine 1982/5.
Has built software with environmental and global positioning data, video and scientific models.

<F#, Elm, Haskell & SQL>

- C \$** 2021/06–2021/10 **Compositional** Review of **SAFE Stack** training material; slides, demos and labs.
- B \$** 2021/02–2021/03 **Bracco** Develop a prototype for interpreting **contrast-enhanced ultrasound**.
- F ?** 2017/04–2020/12 **Flare Timing** For scoring flying competitions; **typeset the rules** as LaTeX • **question** how to interpret some rules • develop a command line **reference implementation** • develop web visualizations of workings, results and discrepancies across implementations • find, raise and fix bugs in the official implementation, **FS** • rescore and publish competitions.
- A \$** 2014/02–2017/04 **Aqualinc Research** For monitoring breaches of regulated levels of water take and pollutant discharge; design a relational database schema • un-munge munged data • develop system services to pull and cache metadata from **Hilltop** web services • expose web services over the top of the relational and time series data • develop separate web frontends for administrators and farmers • generate annual reports by pulling data from web services and typeset with LaTeX.
- G \$** 2012/07–2012/12 **Tagly** Develop server and browser components of a live feed.
- P #** 2012/06–2015/11 **Apress** Technical review of Expert F# books, editions **3** and **4**.
- V #** 2011/08–2015/10 **Travieo** Develop a travel booking website.

<C# & SQL>

- C #** 2012/08–2013/02 **Cactus** Scope upgrades to a production planning system for factory operations.
- L \$** 2008/01–2011/08 **CropLogic** For more potato yield with less water and fertilizer input and less pollutant runoff; port, tune and test a discrete event simulation crop model with scientists • pull in field data and external weather data from numerous and disparate sources • develop a website for growers to setup their crops to enter their irrigation and fertilizer applications and to view the model recommended future inputs and expected yields.
- D #** 2007/12–2011/04 **WDC** Automate accepting public submissions and scheduling hearing time slots.
- N \$** 2003/07–2008/05 **NutriCentre** Develop an online store.
- W #** 2003/06–2007/07 **NIWA** Develop **EDENZ**, a website for publishing environmental time series data.

<C++>

- E \$** 2001/08–2002/09 **Aspelle** Develop authentication and authorization parts of a security product.
- O \$** 1999/10–2001/03 **Obvious Technology** Develop a product searching video via annotated key frames.
- S \$** 1999/07–1999/09 **Software Migrations** Develop a frontend for tools translating asm to C.
- T \$** 1995/02–1999/01 **Trimble** Maintain computer graphics, improving clipping and multithreading.



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\$=full time, #=part time, ?=unpaid

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