

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.

<Haskell>

- Y \$ 2025/01–2025/06 **FPComplete** Develop a new subsite for an existing Yesod web site.
- U \$ 2022/07–2023/08 **FPComplete** Maintain a large Haskell codebase with **Updo**, tooling I developed for generating projects and progressive upgrading.
- B † 2021/12–2022/03 **Plugins for Blobs** Type check units of measure with SMT solving.
- F † 2017/04–2020/12 **Flare Timing** scoring flying competitions Ask **how** to interpret **rules** typesetting them in LaTeX. Develop a **reference** implementation. Publish comparisons of implementations.

<F#, Elm & SQL>

- C \$ 2021/06–2021/10 **Compositional** Review slides, demos and labs of **SAFE Stack** training.
- B \$ 2021/02–2021/03 **Bracco** Prototype an app for interpreting **contrast-enhanced ultrasound**.
- A \$ 2014/02–2017/04 **Aqualinc Research** monitoring breaches of regulated levels of water take and pollutant discharge Design a database schema, unmunging and migrating data. Pull and cache metadata from **Hilltop**. Expose web services over relational and time series data. Develop web apps for admins and farmers. Pull data and emit LaTeX to typeset PDF reports.
- G \$ 2012/07–2012/12 **Tagly** Develop server and browser components of a live feed.
- P # 2012/06–2015/11 **Apress** Expert F# books Technical review of editions **3** and **4**.
- V # 2011/08–2015/10 **Travieo** Develop a travel booking website.

<C# & SQL>

- C # 2012/08–2013/02 **Cactus** Scope upgrading a production planning system for factory operations.
- L \$ 2008/01–2011/08 **CropLogic** Port, tune and test a discrete event simulation crop model with scientists. Ingest field and weather data. Develop a website for growers to setup their soil profile, cultivar, irrigation and fertilizer applications, recommend inputs and predict yields from async model runs.
- 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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📱 philderbeast

\$=full-time, #=part-time, †=self-funded

🐙 [github/philderbeast](https://github.com/philderbeast)
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