

Guyren Gerard Howe

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Skills

- Extensive programming experience with **Ruby, Elixir** (some **Flutter**)
- **Database development** experience (MySQL, PostgreSQL, Microsoft SQL Server, Oracle) particularly PostgreSQL
- Extensive **technical writing** experience
- Experienced **trainer** and **presenter**
- Familiar with **Artificial Intelligence** technologies (particularly Cyc)
- Formal education in **computer science, mathematics, economics, philosophy**
- Government **economic research** experience

Employment History

Senior Engineer 2021–: Elixir/Postgres project

Senior Developer 2017–2021: Ruby on Rails development and data analysis.

Web/Database Consultant 2008–2016: Ruby on Rails Consulting. Developing in-house applications, including a novel user-modifiable list view with search.

Web/Database Developer 2008: Ruby on Rails development for OneSpot.com.

Consultant Programmer, 2005–2008: Lead developer on actionitem.com (Ruby on Rails project).

Ontologist/Programmer, Cycorp, 2001–2005: Worked on the *Semantic Knowledge Source Integration* project (an important enabler of many other projects) on programming, writing ontology and acting as sole DBA/database designer with PostgreSQL, MySQL, Microsoft SQL Server and Oracle. Wrote much of the documentation for ResearchCyc, attended government briefings and Principal Investigator meetings, often presenting to government or other

commercial interests. Wrote proposals (one of which would have been funded were the program not canceled).

Consultant Programmer 1999-2002: 4th Dimension and REALbasic development and technical writing (principally, databases with 4th Dimension and an extensive computer science curriculum using REALbasic).

Technical Support Engineer, 4th Dimension Inc, 1997-99: technical support, technical writing, training for 4th Dimension relational database.

Consultant, Namadgi, 1997: 4th Dimension, 5pm Pro and internet services consulting for an Australian software distribution and computer consulting company (a mix of 4th Dimension and internet service technical support and development/technical writing for a real estate services management application).

Computer Science Tutor, Australian National University, 1995-96: Tutoring computer science at the Australian National University

Technical Support, Dept of the Attorney-General, 1992-1995: computer support and management for an Australian government department; responsible for problem diagnosis and repair and training.

Economic Policy Research, Dept Industry, Technology and Commerce, 1990-1992: research and policy work for an Australian government department, resulting in significant cost savings for Australian Defence Force and expansion of domestic market for focal industry.

Publications:

REAL OOP with REALbasic (30,000 word book)

Academic Achievements

Completed three undergraduate degrees from the Australian National University in Science, Economics and Arts (the latter with Honors, including a short thesis in logic); also a Graduate Diploma in Arts. Majors in Computer Science, Mathematics, Economics, Philosophy (double major).

Other

Presented at Railsconf 2016 on Ruby Keyword Args: <https://confreaks.tv/videos/rubyconf2016-keyword-args-the-killer-ruby-feature-you-aren't-using>