Steve Zelaznik

GitHub   LinkedIn   Stack Overflow   Portfolio

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Computer Skills

Ruby	Python	CSS3	JavaScript	PostgreSQL
Rails	NumPy	SASS	Backbone	SQLite3
RSpec	Git	Bootstrap	jQuery	HTML5

Projects

Cosmo-Connect   **Live • GitHub**
- Restful single page app in Backbone for fast updating.
- Image processing though Cloudinary API for efficient resizing.
- Fully normalized data, user choices stored as numbers, not strings.
- Postgres triggers keep data consistent, materialized views speed up JSON rendering.
- Follows security best practices: slated hash passwords, parameterized SQL queries.

Minesweeper-JS   **Live • GitHub**
- Pixel perfect clone of classic Windows logic game.
- Uses CSS3, Javascript Canvas, and event listeners. Glyphicons for fast loading.
- Facebook and open graph meta tags make for easier sharing to social media.

Frozen-Dictionary   **GitHub**
- Python extension in C to create a data type missing from Python standard library.
- Thread-safe and hashable. Lookup times O(1), indistinguishable from builtin dict.
- Complete unit test coverage, more lines for tests than original code.

Professional Experience

AEGON Asset Management   2012 – 2015
Derivatives Analyst   Baltimore, MD
- Researched alternative hedging strategies. Projected savings: $50 million/year.
- Optimized random seed generation, speeding convergence time by a factor of 30.
- Built audit trail in Python/PostgreSQL for daily hedging, reducing setup time and error rates.

AEGON Group Risk   2009 – 2012
Actuarial Analyst   Baltimore, MD
- Rebuilt interest rate curve engines for use in 31 countries. Went live in 3 weeks.
- Improved the efficiency of VBA tools for financial reporting, shortening 21 days of work to 5.
- Built XML API to manipulate actuarial software from Excel. It became known as the 'Miracle Tool'.

Education

University of Wisconsin   2009
Bachelor of Science: Economics and Applied Math   Madison, WI