Daniel Patterson

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SUMMARY

Web developer with seven years experience writing full-stack database backed web applications. Experienced with Ruby (and Rails), Haskell (Snap), Python, and Postgresql. A commiter to Snap, a web framework for Haskell.

WORK EXPERIENCE

Web Developer - Haskell, Snap, Postgresql, Redis. 2014
Research Project
- Interactive tool for people 70+ to plan their lives, as part of a research study at Northwestern University. Followed extensive usability guidelines, while making interactivity suitable for technically unsophisticated users

Web Developer - Haskell, Snap, Postgresql. 2014
Data-driven CMS
- Built a lightweight CMS used by various clients with custom data schema.

Web Developer - Haskell, PHP, Snap, Wordpress, Postgresql, Stripe. 2013-2014
Paywall / Subscriptions System
- Paywall, subscription fulfillment system and mailing list for Jacobin Magazine, integrated into existing Wordpress site.

Web Developer - Ruby, Rails, Postgresql. 2010-2014
Food Auditing Webtool
- Applications for students to upload and analyze information about food consumption at their universities, built for the non-profit Real Food Challenge.

Web Developer - Python, OCaml, Paypal, Haskell, Snap, Postgresql. 2007-2009
Freelance
- Lightweight python framework built for client websites.
- Digital music store for a small recording studio.
- Application for cooperatively manage shifts, and a declarative ajax framework, built in collaboration with various workplaces in Providence, RI.

Engineering Intern - PHP, Python, C. Summer 2007
Facebook, Palo Alto
- Worked on internal tools, and an experimental PHP to Python bridge to allow new code to be written in Python (before PHP to C++ compiler was written).

SKILLS

Haskell, SQL, Ruby, Python, OCaml, C, C++, x86, Java, Linux, Git, Darcs, Mercurial.

PUBLICATIONS

- *CaptainTeach: Multi-Stage, In-Flow Peer Review for Programming Assignments.* Joe Gibbs Politz, Daniel Patterson, Kathi Fisler, and Shriram Krishnamurthi. ITiCSE 2014.
- *Python: The Full Monty - A Tested Semantics for the Python Programming Language.* Joe Gibbs Politz, Alejandro Martinez, Matthew Milano, Sumner Warren, Daniel Patterson, Junsong Li, Anand Chitipothu, and Shriram Krishnamurthi. OOPSLA 2013.

EDUCATION

Bachelor of Science, Math and Computer Science
Brown University, Providence RI