Michael White

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EMPLOYMENT

Dimagi (Cambridge, MA)

Software Engineer, September 2012 - December 2013

Contractor, January - July 2014

- ▸ Contributed full stack changes to a large Django application for managing health data, in a fast-paced collaborative environment
- ▸ Maintained a legacy 10KLOC JavaScript XForm designer:
  - ∗ Added new features, fixed bugs, addressed major usability issues, and improved performance
  - ∗ Improved collaborative development speed by introducing a module loader and a plugin system for modularity, setting up automated testing infrastructure and writing initial tests, and incrementally refactoring most of the codebase to be more maintainable
- ▸ Wrote custom reports for clients using CouchDB
- ▸ Proposed full code review, technical onboarding, and other process changes that helped the team scale

GetchaBooks (Medford, MA)

Co-Founder and Backend Architect, 2010 - 2012

- ▸ Created a site that let college students select their courses and find the best way to buy their required books online, named one of *Inc. Magazine's* Coolest College Startups of 2011
- ▸ Wrote the backend using PHP, Propel ORM, and MySQL
- ▸ Wrote scrapers for college bookstore chain websites as part of a generic scraping system with batch and on-demand scraping support
- ▸ Designed a multi-book price comparison algorithm that accounts for variable shipping costs

AIFB, Karlsruhe Institute of Technology (Remote)

Student Research Assistant, June - August 2010

- ▸ Designed and implemented a Semantic MediaWiki extension that used existing structured data to interpret plain-text queries as structured queries, and added faceted browsing to the built-in search results interface, using MySQL, PHP, and jQuery

EDUCATION

Tufts University (Medford, MA)

B.S. in Computer Science, May 2012

SKILLS

Python (Django, Flask, SQLAlchemy), JavaScript (jQuery, Knockout, React), PHP, C, SQL, HTML, CSS, git, Linux

Familiar with German and Spanish

PROJECTS

resume   `http://github.com/mwhite/resume`

A Markdown to PDF resumé generator, via LaTeX, using Pandoc.

JSONAlchemy   `http://github.com/mwhite/JSONAlchemy`

A proof-of-concept tool for taking multi-tenant data stored in a Postgres JSON column, but with known implicit schemas, and performantly exposing it as standard SQL tables, without an ETL step, using Postgres views and partial indexes. Built with SQLAlchemy.

INTERESTS

History, genealogy, music, linguistics

REFERENCES

Available on request