

FULL STACK WEB DEVELOPER

with 26 years' experience programming in JavaScript, PHP, and MySQL, and 16 years with Python.

WEB DEVELOPMENT SKILLS

IN 4 WEB APP ARCHITECTURES

- **Languages:** JavaScript/Node.js, Python, PHP, XQuery, CSS, HTML5, SQL
- **Databases:** MySQL, SQLite, CouchDB, PouchDB, GunDB
- **Frontend:** Single Page Applications, Progressive Web Apps, Vue, AngularJS, Polymer/Web Components/lit-element, D3.js, Bootstrap, Backbone, jQuery, jQueryUI, Google Maps API, Hoodie.js, ExtJS
- **Backend:** Node.js, Django, TurboGears (incl. SQLAlchemy), CodeIgniter, Joomla (installing, configuring, maintaining, writing custom extensions), Drupal, custom PayPal IPN integration
- **Architectures:** Single Page Application + API, MVC Framework, Joomla Extension, Custom Code
- **Tools & methods:** Git, Docker, continuous integration & delivery, unit testing, NPM, LAMP stack, Trac, phpMyAdmin, cPanel, ImageMagick, InkScape, Gimp

WEB DEVELOPMENT EXPERIENCE

20 YEARS

Senior Software Developer, October 2020-October 2025, WealthCounsel

- **Develop & maintain** complex Estate Planning drafting and education software written in Vue, Angular, and CKEditor on the frontend, and Node and XQuery/MarkLogic on the backend

Software Engineer, December 2019-August 2020, Nuke Digital – <https://github.com/timblack-NukeDigital>

- **Create** custom e-commerce site for the largest HVAC manufacturer in the world, as a single page application using web components with a Node.js API backend

Software Developer, June-July 2019, Quantivate

- Migrate development environment from Vagrant to Docker
- Refactor legacy code to make it more modular, testable, and maintainable
- Implement best practices, clean up problematic code, write unit tests

Web Developer & Owner, 2000-present – Always Reformed Web Development (alwaysreformed.com)

- 40 hr/wk contract with **Quantum Trading Technologies** (Sept. 2016-April 2019)
 - **Develop & maintain** user-facing CodeIgniter & AngularJS web applications (3 primary, 7 other secondary) used in option trading to scan for the most profitable trades, predict and graph their profit & loss using the Black-Scholes formula, predict seasonal price movements, and provide platforms for training option traders: paydaystocks.com, seasonedstocks.com, tradepartner.io
 - **Develop & maintain** a central API used by the above applications
 - **Design & Support: Collaborate** with product & support leads, support staff, & other developers to design new features & solve users' problems
 - **Produce** offer pages
 - **Optimize** slow code
 - **Devops: Develop & maintain** all apps' databases & servers, automate deployment, manage development/testing server, migrate to Docker
- **Design & create** flexible auto loan rate-card entry interface in Polymer and a Django Rest Framework backend (2016), example Drupal sites, Polymer & Hoodie apps (2016)
- **Create & maintain** mostly Joomla (and a few hand-coded) websites for churches & other organizations (2006-present)
- **Create** in-house project/client/contractor management, time tracking, billing system in TurboGears (2006-present)
- **Maintain & develop** an existing warehouse logistics system for all of a major wireless phone network's stores, warehouses, and inventory in PHP & MySQL (2007-2010)

President, 2010-2016 – CaneyPUGgies (Caney Python User Group, https://web.archive.org/web/*/caneypuggies.alwaysreformed.com) - Help group members learn web development in Python using TurboGears, then JavaScript using CouchApps, CouchDB, Hoodie, Node.js, Backbone, and Polymer, create Reformed Churches Locator (github.com/timblack1/rcf)