

# David Watson

## david@davidwatson.org

### Summary

I help teams design, develop, and deploy software using automation, iteration, and reflection to improve.

### Experience

**Software Engineering Specialist, Consultant, *Caterpillar*** -  
,  
-present

- Prototyped ingestion, storage, and annotation as well as terrain visualization for Autonomy Group

**Member of Technical Staff, *Carnegie Mellon University***

- Researched high performance computing, ML, and HCI for Emerging Technology Center (ETC)

**Senior Software Developer, *Realpage*** -

- Implemented crawler data pipeline using Python, PostgreSQL, Docker, and Kubernetes

**VP Product Development, *Wellbridge Health*** -

- Led design of Django REST JSON API using PostgreSQL to Ember Data on web and mobile

**VP Engineering, *Hire an Esquire***

- Led engineering team through refactoring Python, Django, and PostgreSQL stack

**Senior Software Developer, *Forever*** -

- Wrote Python, Flask, MongoDB prototype, ported to Ruby on Rails, PostgreSQL

**Senior Engineer, *Smash*** -

- Designed and implemented conversational text systems and REST interfaces in python

**Software Development Manager, *Wellspring*** -

- Led DevOps approach to Selenium (CI) and Capistrano (CD)

**Project Engineer, *Applied Perception*** -

- Visualized XML sonar data in python, ported Microsoft C .net Windows GUI

to C++/Qt/Linux

**UI Software Engineer, Nomos -**

- Prototyped wireframes and storyboards in C++/Qt for adaptive D treatment planning

**Software Design Engineer, MAYA -**

- Implemented AJAX backends in python/non-relational DB and a wireless lighting system in C for Philips

**Co-Founder, Cobind -**

- Co-founded custom Linux tools startup after winning Idea Foundry Fellowship

**Senior Software Engineer, Management Science Associates -**

- Implemented product import systems providing Excel VBA API from spreadsheet to database

**Member of Technical Staff, CA -**

- Coded C++ on Automation Point, Raveler, and Unicenter at Legent, Platinum, and CA, respectively

**Programmer-Analyst, Mellon -**

- Wrote C++ on OS/ for Executive Workbench asset management product

**Programmer-Analyst, USX -**

- Implemented C/C++ HLLAPI programs on OS/ to automate data center ops from a networked PC

**Education**

- Bachelor of Science, *Duquesne University*