

**David Watson** david@davidwatson.org

## Summary

I help teams design, develop, and deploy software from containers to cloud and beyond.

## Experience

**Software Engineering Specialist, *Caterpillar* 2018-present**

- DevOps, on terrain visualization, CVAT and ingestion on Kubernetes for Autonomy Group

**Member of Technical Staff, *Carnegie Mellon University* 2020**

- Emerging Technology Center (ETC) works on high performance computing, ML, and HCI

**Senior Software Developer, *Realpage* 2016 - 2018**

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

**VP Product Development, *Wellbridge Health* 2015 - 2016**

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

**VP Engineering, *Hire an Esquire* 2014**

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

**Senior Software Developer, *Forever* 2013 - 2014**

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

**Senior Engineer, *Smash* 2011 - 2012**

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

**Software Development Manager, *Wellspring* 2010 - 2011**

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

**Project Engineer, *Applied Perception* 2008-2009**

- Visualized XML sonar data in python, ported Microsoft C#.net GUI to C++/Qt/Linux

**UI Software Engineer, *Nomos* 2006 - 2007**

- Prototyped wireframes and storyboards in C++/Qt for adaptive 4D treatment planning

**Software Design Engineer, *MAYA* 2004 - 2006**

- Implemented web-based systems in python and a wireless lighting system in for Philips

**Co-Founder, *Cobind* 2003 - 2004**

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

## Education

- Bachelor of Science, *Duquesne University*