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*