

David Watson david@davidwatson.org

Summary

I help teams design software by developing UI, API, and DBMS into cloud-deployed apps. See [github](#) and [linkedin](#) for more.

Skills

- **Design**
 - Conceptual Design
 - Decomposition
 - Iterative Development
 - Rapid Prototyping
 - Sensemaking
- **Development**
 - Platform
 - Linux
 - Mac
 - Windows
 - Language
 - C++
 - Python
 - HTML/CSS/JS
 - Stack
 - Qt
 - Flask/Django
 - PostgreSQL
- **Deployment**
 - Docker
 - Helm
 - Kubernetes
 - Podman
 - Skaffold

Courses

- RDBMS and Internet Application Programming, MIT
- Git Foundations Workshop, Github

Education

- Bachelor of Science, *Duquesne University*

Experience

Consulting Engineer, *Caterpillar* 2021-present

- Working on technology roadmap for autonomy group

Member of Technical Staff, *Carnegie Mellon University* 2020

- The Emerging Technology Center works on high performance computing, ML, and HCI

Software Engineering Specialist, *Caterpillar* 2018 - 2020

- Worked on data annotation and ingestion for robotic systems within Autonomy Group

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 the engineering team through refactoring the Python, Django, and PostgreSQL tech stack

Senior Software Developer, *Forever* 2013 - 2014

- Built and ported Python, Flask, and MongoDB prototype to Ruby on Rails and PostgreSQL for production deployment

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 continuous integration (CI) and Capistrano continuous deployment (CD)

Project Engineer, *Applied Perception* 2008-2009

- Implemented python visualization of XML sonar data and ported Windows C#.net GUI to C++/Qt on Linux

UI Software Engineer, *Nomos* 2006 - 2007

- Built wireframes, storyboards, and prototypes in C++/Qt for an adaptive 4D treatment system

Software Design Engineer, *MAYA* 2004 - 2006

- Implemented web-based systems in python and a Zigbee wireless lighting system in Microsoft C#.net for Philips

Co-Founder, *Cobind* 2003 - 2004

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

