

**David Watson**  
**(412) 376-7565**

**d@davidwatson.org**



## Summary

Designing, developing, and deploying software from feasible prototypes to shippable products to viable profits.

## Objective

Shape and ship software with a reflective team of caring collaborators sharing common [aesthetics](#), [methods](#), and [tools](#).

## Experience (W-2)

<b>Software Engineering Specialist</b>	<a href="#">Caterpillar</a>	2018-2020
Designed storage system on Kubernetes; Worked with IT to make provisioning private cloud infrastructure feasible		
<b>Senior Software Developer</b>	<a href="#">Rent Jungle</a>	2016-2018
Coded crawler data pipeline from Docker and Kubernetes on Linux & Mac to AWS in Python with Postgres & MySQL		
<b>VP Product Development</b>	<a href="#">Wellbridge Health</a>	2015-2016
Led product development team from <a href="#">MVP</a> to <a href="#">Remote Health Coaching Platform</a> in Flask, Django, Postgres, and Aptible		
<b>Senior Software Developer</b>	<a href="#">Forever</a>	2013-2014
Prototyped MVP in Python, Flask, NoSQL; Ported system to Ruby/Rails/Postgres for production deployment on Heroku		
<b>Senior Engineer</b>	<a href="#">SMaSh</a>	2011-2012
Built conversational text interface to track blood glucose for diabetes patients in Python, Flask, Postgres, and Heroku		
<b>Software Development Manager</b>	<a href="#">Wellspring</a>	2010-2011
Transformed legacy ops from data center to automated CI/CD SaaS deployment cutting daily support to near zero		
<b>Project Engineer</b>	<a href="#">Applied Perception</a>	2008-2009
Ported C#.net GUI to Linux <a href="#">OCU</a> in C++/Qt; Programmed Python XML sonar parser/viz between C++ GUI & <a href="#">HULS</a>		
<b>UI Software Engineer</b>	<a href="#">Nomos</a>	2006-2007
Automated QA tests in C++ for Corvus radiation oncology product; Prototyped and storyboarded 4D design in C++/Qt		
<b>Software Design Engineer</b>	<a href="#">MAYA Design</a>	2004-2006
Developed AJAX stack on Linux & Mac in Python and NoSQL database; built predecessor to Hue in C#.net for Philips		
<b>Co-Founder</b>	<a href="#">Cobind</a>	2003-2004
Envisioned, designed, marketed and launched DIY Linux Tools startup to build custom Linux distros online		

## Experience (1099)

<b>Technical Consultant</b>	<a href="#">Caterpillar</a>	2021
Built and profiled terrain visualization C++ code ported from Intel to Xilinx <a href="#">ZCU-104</a>		
<b>Usability Consultant</b>	<a href="#">MAYA Design</a>	2008
Colaborated with MAYA Design on usability of Bayer Diabetes Blood Sugar Monitor		
<b>Technical Consultant</b>	<a href="#">TenthRow</a>	2009
Designed and built a <a href="#">live music experience</a> via streaming to fans worldwide		
<b>Technical Consultant</b>	<a href="#">Zenit Solutions</a>	2008
Designed and implemented python system to track movers via PostGIS and web2py		

## Education and Learning

Duquesne	<a href="#">Bachelor of Science</a>
Github	<a href="#">Git Foundations Workshop</a>
PyCon	<a href="#">Python Conference</a>
RDBMS and Internet Application Programming	<a href="#">MIT (CE)</a>

## Awards

<b>Infoworld</b>	Top 100 Award	Design and delivery of MAYA's DHS humanservices.net project
<b>Idea Foundry</b>	Transformation Fellowship	Startup (Cobind) Seed Investment and Entrepreneurial Support

## Open Source





<b>Programmer</b>	<a href="#">Github Issues Report</a>	Coordinated code and configuration from the team at Rent Jungle
<b>Programmer</b>	<a href="#">BodyTrace API</a> , <a href="#">PostgREST</a>	Wrote BodyTrace API and PostgREST client for WBH JSON-API
<b>Programmer</b>	<a href="#">Marquee</a>	Contributed servlet implementation to Marquee XML-RPC library

## Knowledge and Skills

Platforms	Languages	Databases	Containers & VMs
Linux MacOS Windows	C/C++ HTML/CSS/JS Python	Postgres SQLite Redis	Docker Kubernetes Proxmox

Architecture	Integration (CI)	Deployment (CD)	Frameworks
API HCI LXC/KVM	Jenkins Circle CI GitOps	Aptible Capistrano Shippable	Django Flask Rails

## Quotes From Coworkers

-  His skills as a top-notch technical author makes him a great collaborator.
-  He has a genuine interest in nurturing and mentoring others to help them achieve their goals.
-  His sense of business, technology, and insights into usability makes him a great team member.
-  What impresses me most is his curiosity, critical thinking, and commitment to continued learning.