David Watson
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Shaping software aesthetics, methods, and tools by bridging the gap from prototype-feasability to platform-viability.

Knowledge and Skills

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

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

Experience (W-2)

Software Engineering Specialist — Caterpillar — 2018-2020
Designed storage system on Kubernetes; Worked with IT to make provisioning private cloud infrastructure feasible

Senior Software Developer — Rent Jungle — 2016-2018
Coded crawler data pipeline from Docker and Kubernetes on Linux & Mac to AWS in Python with Postgres & MySQL

VP Product Development — Wellbridge Health — 2015-2016
Roles included CISO, IT Director, and VP Product from MVP to behavioral health platform in Django, Postgres, and Aptible

Senior Software Developer — Forever — 2013-2014
Prototyped MVP in Python, Flask, NoSQL; Ported system to Ruby/Rails/Postgres for production deployment on Heroku

Senior Engineer — SMaSh — 2011-2012
Built conversational text interface to track blood glucose for diabetes patients in Python, Flask, Postgres, and Heroku

Software Development Manager — Wellspring — 2010-2011
Transformed legacy ops from data center to automated CI/CD SaaS deployment cutting daily support to near zero

Project Engineer — Applied Perception — 2008-2009
Ported C#.net GUI to Linux OCU in C++/Qt; Programmed Python XML sonar parser/viz between C++ GUI & HULS

UI Software Engineer — Nomos — 2006-2007
Automated QA tests in C++ for Corvus radiation oncology product; Prototyped and storyboarded 4D design in C++/Qt

Software Design Engineer — MAYA Design — 2004-2006
Developed AJAX stack on Linux & Mac in Python and NoSQL database; built predecessor to Hue in C#.net for Philips

Co-Founder — Cobind — 2003-2004
Envisioned, designed, marketed and launched DIY Linux Tools startup to build custom Linux distros online

Experience (1099)

Technical Consultant — Caterpillar — 2021
Built and profiled terrain visualization C++ code ported from Intel to Xilinx ZCU-104

Usability Consultant — MAYA Design — 2008
Colaborated with MAYA Design on usability of Bayer Diabetes Blood Sugar Monitor

Technical Consultant — TenthRow — 2009
Designed and built a live music experience via streaming to fans worldwide

Technical Consultant — Zenit Solutions — 2008
Designed and implemented python system to track movers via PostGIS and web2py

Education and Awards

Duquesne	Bachelor of Science	**Infoworld**	Top 100 Award
MIT (CE)	RDBMS and IAP	**Idea Foundry**	Transformation Fellowship