

Summary

Designing, developing, and deploying software from feasible prototype to shippable product to viable profit.

Objective

Craft software with a caring, daring, reflective team of creatives sharing common [aesthetics](#), [methods](#), and [tools](#).

Knowledge and Skills

Platforms	Language	Database	Cloud
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 (Primary)

SW Eng. Specialist	Caterpillar	2018-2020
Designed storage system on Kubernetes; Worked with IT to make provisioning private cloud infrastructure feasible		
Sr. SW Dev.	Rent Jungle	2016-2018
Coded crawler data pipeline from Docker and Kubernetes on Linux & Mac to AWS in Python with Postgres & MySQL		
VP Product Dev.	Wellbridge Health	2015-2016
Led product development team from MVP to telehealth sensor system in Python, Flask, Django, Postgres, and Aptible		
Senior SW Dev.	Forever	2013-2014
Prototyped MVP in Python, Flask, NoSQL; Ported system to Ruby/Rails/Postgres for production deployment on Heroku		
Senior Eng.	SMaSh	2011-2012
Built conversational text interface to track blood glucose for diabetes patients in Python, Flask, Postgres, and Heroku		
SW Dev. Mgr.	Wellspring	2010-2011
Transformed legacy ops from data center to automated CI/CD SaaS deployment cutting daily support to near zero		
Project Eng.	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 SW Eng.	Nomos	2006-2007
Automated QA tests in C++ for Corvus radiation oncology product; Prototyped adaptive 4D radiotherapy in C++/Qt		
SW Design Eng.	MAYA Design	2004-2006
Developed web stack on Linux & Mac in Python and NoSQL database; built predecessor to Hue in C#.net for Philips		
Co-Founder	Cobind	2003-2004
Won an Idea Foundry Transformation Fellowship; launched DIY Linux Tools startup; built custom Linux distros online		

Awards

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





Experience (Secondary)

Consultant	Caterpillar	2021
Built and profiled terrain visualization C++ code ported from Intel to Xilinx ZCU-104		
Sr. MTS	Carnegie Mellon	2020
At SEI, collaborated with groups from ATAK, Intel and NREC supporting projects like AI, HCI, and HPC in C++ and Python		
VP Eng.	Hire an Esquire	2014
Led redesign, refactoring, and deployment of ground-up demolition of legacy Python, Django, Postgres web stack		
Consultant	TenthRow	2009
Designed and built TenthRow - a web-based system to deliver a live music experience via streaming to fans worldwide		
Consultant	MAYA Design	2008
Colaborated with MAYA Design on usability of Bayer Diabetes Glycemic Monitor		
Consultant	Zenit Solutions	2008
Designed and implemented python reporting system in web2py and postgresql to track movers via PostGIS and web2py		

Open Source

Programmer	Github Issues Report	Coordinated code and configuration from the team at Rent Jungle
Programmer	BodyTrace API , PostgREST	Authored BodyTrace API and PostgREST client-server in Wellbridge Health JSON-API
Programmer	Marquee	Contributed servlet implementation to Marquee XML-RPC library

Quotes From Coworkers

 He genuinely cares about the users of systems he's building.	 He has a genuine interest in nurturing and mentoring others to help them achieve their goals.
 He's more like a music producer than the typical software engineer.	 His sense of business, technology, and insights into usability makes him a great collaborator.

Education and Learning

Duquesne	Bachelor of Science
Github	Git Foundations Workshop
PyCon	Python Conference
RDBMS and Internet Application Programming	MIT (CE)