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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/th>	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

Long-Term Experience

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

Senior 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 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

SD 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

Senior SW Eng. Management Science Associates 2000-2003
Created VBA plugin enabling remote product import over SOAP protocol from Microsoft Excel to product database

Principal MTS CA, Legent, Platinum 1995-2000
Wrote GUI features (CMS, NMS) in C++ on Windows and OS/2 for Automation Point, Raveler, and Unicenter products

Short-Term Experience

Consultant	[Caterpillar](#)	2021
Built and profiled terrain visualization C++ code ported from Intel to Xilinx [ZCU-104](#)		
Senior 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 Engineering	[Hire an Esquire](#)	2014
Led redesign, refactoring, and deployment of ground-up demolition of legacy Python, Django, Postgres web stack		
Senior SW Eng.	[PPG](#)	2007
Member of team building and shipping C++ code for Spectrophotometer used in 40,000 body shops		
Consultant	[Zenit Solutions](#)	2008
Designed and implemented python reporting system in web2py and postgresql to track movers via PostGIS and web2py		
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		

Awards

Infoworld	Top 100 Award	2006
Design and delivery of MAYA's DHS humanservices.net project		
Idea Foundry	Transformation Fellowship	2003
Startup (Cobind) Seed Investment and Entrepreneurial Support		

Open Source

Programmer	[Github Issues Report](#)	2017
Coordinated code and configuration from the team at Rent Jungle		
Programmer	[BodyTrace API](#), [PostgREST](#)	2015
Authored BodyTrace API and PostgREST client-server in Wellbridge Health JSON-API		
Programmer	[Marquee](#)	2003
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.

- 💬 His sense of business, technology, and insights into usability makes him a great collaborator.

- 💬 He's more like a music producer than the typical software engineer.

- 💬 He's smart, dedicated and diligent.

Education and Learning

PyCon	Python Conference	[2018](#)-[2019](#)
Github	[Git Foundations Workshop](#)	2012
[RDBMS and Internet Application Programming](#)	MIT (CE)	2012
Duquesne	Bachelor of Science	1991