

Shaping software [aesthetics](#), [methods](#), and [tools](#) by reflectively bridging the gap from prototype-feasibility to platform-viability.

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

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