

Shaping software [aesthetics](#), [methods](#), and [tools](#) by 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)

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|--|------------------------------------|-----------|
| 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

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