

Objective

Craft complete products & services with creative people bound by protean culture, minimal methods, and modern tools.

Summary

Startups taught me to value the implied constraints of small teams that scale to envision, prototype, redesign, refactor, and ship software on a cloud conveyor belt. Studies yielded a merit award, an internship, and ultimately a fellowship.

Skills

Development: Tech contributor roles. R&D Labs & startups. Designed, developed & documented DB/API/GUI/WWW.

Operations: Hands-on tech lead roles. Early-stage startups. Agile, Builds, CI/CD & DevOps tools, containers & cloud.

Management: Leadership roles. Late stage startups and R&D labs. Led teams to iteratively improve SDLC methods.

Commendations From Coworkers

David is an amazing listener, collaborative employee, and excellent engineer. From caring about users with curiosity and continued learning to seeing the bigger technological picture, he thinks creatively, critically, and nonlinearly.

Experience (W-2 only, 1099 available upon request)

Senior Member of Technical Staff	Carnegie Mellon	2020-2020
At SEI, collaborated with groups from AT&T, Intel and NREC supporting projects like AI, HCI, and HPC in C++ and Python		
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 (acquired by Rainmaker & Realpage)	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
Led product development team from MVP to telehealth sensor system in Python, Flask, Django, Postgres, and Aptible		
VP Engineering	Hire an Esquire (acquired by Major, Lindsey, and Africa)	2014-2014
Led redesign, refactoring, and deployment of ground-up demolition of legacy Python, Django, Postgres web stack		
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 (acquired by mindmatrix)	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 (acquired by Foster-Miller, Qinetiq)	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 (acquired by North American Scientific, Best Medical)	2006-2007
Automated QA tests in C++ for Corvus radiation oncology product; Prototyped adaptive 4D radiotherapy in C++/Qt		
Software Design Engineer	MAYA Design (acquired by Boston Consulting Group (BCG))	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 Software Engineer	Management Science Associates	2000-2003
Created VBA plugin enabling remote product import over SOAP protocol from Microsoft Excel to product database		
Principal Member of Technical Staff	Legent, Platinum (acquired by CA Technologies, Broadcom)	1995-2000
Wrote GUI features (CMS, NMS) in C++ on Windows and OS/2 for Automation Point, Raveler, and Unicenter products		

Education

MIT (Continuing Education)	RDBMS and Internet Programming (Greenspun)	2012
Duquesne University	Bachelor of Science	1991