

Devin Bayer's Holistic Computing Agency

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INTRO



- 20 years of software, systems and data engineering experience.
- Open to partnerships, high level IC roles and freelancing.
- Mostly I write code, but as a generalist can and will do whatever's needed.
- I find the whole stack interesting, including web / embedded / networking / etc.
- Experience building and running mission-critical distributed systems, including core internet infrastructure, systems that handle financial data, and particle accelerator data pipelines.
- Contributions to more than 100 open source projects; some examples at github.com/akvadrako.
- My goal is to find better methods of producing and maintaining large software systems.
- My style is modest, easy to understand architectures, ample docs and extra layers of security.
- I enjoy giving code reviews, accepting criticism, sharing knowledge and working as a team.

CONSULTING ROLES

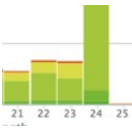

During periods of my career I've divided my time between freelancing and personal projects.

IN...	I WORKED AS A GENERALIST COMPUTING ENGINEER ...	USING...
2021	for ClearCo, a Canadian Fintech that gives loans to internet shops. I built a platform to collect and analyze private financial data from dozens of external services.	Python, k8s, GCP, React, PostgreSQL, Pandas
2018 + 3y	for Spaaza, a retail SaaS provider, performing maintenance and modernizing their microservice and serverless platform.	Java, Go, AWS, PHP, ES, Terraform, Lambda
2017	for Greenpeace, building a data pipeline and BI dashboard to understand internal users.	Python, GCP, BigQuery, k8s
2016	for Irdeto, a leading global security provider. I scaled and automated their video watermarking service and worked on a separate web portal.	Java, Python, Angular, Meteor, Docker, AWS, Ansible, Terraform
2014	for Radically Open Security, on the design of an open source anti-DDoS solution under an NLnet grant.	Perl, PHP, NetFlow, nfsense
2003 + 2y	for The University of Rochester, where I had the privilege of building a distributed data pipeline for Fermilab 's Tevatron, the world's largest particle accelerator, and a muon detector.	IRIX, GTK C, C++, ROOT
2003 + 2y	on Rent-a-coder, picking up gigs for desktop apps, drivers, system roll-outs, etc.	C, ObjC, Ruby Java, macOS
2002	for Transportation Systems Planning, building a car-counting system in my hometown of Lebanon, NH.	Ruby, Debian, PalmOS, Postgres

continued...


PERMANENT ROLES

The middle of my career involved more long term positions:

IN...	I WORKED AS A...	USING...
2010 + 4y	Senior Devops Engineer for the RIPE NCC. As part of a small elite team that juggled a variety of high profile projects combined with maintaining legacy systems, we needed to have good automation and organization. Systems included: <ul style="list-style-type: none">– K-root, one of the 13 root DNS servers vital for the internet with 30 global sites and millions of users.– A 200-node Hadoop cluster for which we feed, cared for and wrote analytics jobs.– A AJAX-heavy public web UI to query said cluster.	DNS, Cisco, Juniper, Netflow, Python, Java, Redhat, Ansible, CFEngine, Splunk, Hadoop, MySQL
	Publication: Visibility of Prefix Lengths in IPv4 & IPv6 (2010), a study of the how network size affects global routability.	
2008 + 2y	Software Engineer & Trainer for PortaOne on their VoIP solution, including customer training, coordinating development and making their billing engine distributed.	C, C++, Java RTP, Perl Oracle
2006 + 2y	Volunteer for The Gambia College, where I had a variety of tasks in a challenging environment: <ul style="list-style-type: none">– setting up a 200 PC windows network.– customising FOSS solutions for library / internet cafes.– teaching basic computing classes to complete novices.– fixing integer overflows in a Linux boot loader.	Win 2003, PHP, Ruby, Postgres Java, MS Office Win '95, x86 assembly, DOS
		
2005 + 1y	Network Platform Engineer for CAI Networks, mostly alone, launching a new global load-balancer device.	Busybox, Redhat uClibc, DNS

PERSONAL PROJECTS

A few of the career-related projects I've done between freelancing gigs:

IN...	I WORKED AS A...	USING...
2014 + 8y	Informatics Researcher. In between gigs I'm building tools to make myself and others more productive at crafting and running software.	a bit of everything
2016	Emoji Salesman, successfully advocating an emoji to the Unicode Consortium: Flying Disc Emoji Proposal .	 InDesign, navigating bureaucracy
2000 + 2y	System Administrator, running a publicly accessible multi-user Linux environment over dial-up.	Linux, Ruby, IRC, Bash