

DEVIN BAYER'S HOLISTIC COMPUTING AGENCY

CODER / OPERATOR

Distributed systems, humane design, automation & whatever else

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MISSION

Since learning to code, I have been impressed with the power that computers give us. Literally anything imaginable is possible; you just have to know what you want and express it precisely. Okay that isn't trivial; it requires understanding how we think and building tools to match. Or even better, changing how we think to more closely mimic the natural world. These are my mission. My experience is solely

solving practical problems; I never learn first and look for applications later. Thus I have a good feeling how much I can learn and still get the job done. My taste is for modest, straightforward architectures and working vertically on a small team that does whatever needs doing, even if it's talking to clients, racking servers or carving out technical docs. Though if designing a new language or scalable system is the right way forward, so much the better.

DURING...	I WORKED AS A...	USING...
2014 → Now	INDEPENDENT RESEARCHER , aiming to push us into a new future of more human, more effective computing, with a focus on an increased capacity to handle a large variety of data and software systems.	Whatever I find a need for
2016	SOFTWARE / SYSTEMS ENGINEER for IRDETO , building a video watermark detection service with autoscaling on AWS, a one-line deployment and a real-time reactive web portal.	Python Meteor AWS Angular Docker Ansible
2015	SOFTWARE / SYSTEMS ENGINEER for SANOMA MEDIA , building a portal to the clouds for facilitating a transition to their private datacenter, technical negotiation with vendors, building the deployment portal and better processes, like reviews and true CI.	Java Puppet JS (React) VMWare OpenStack Win 2012 AWS Django
2010 → 2014	SOFTWARE, SYSTEMS & DATA SCIENTIST for the RIPE NCC as part of an elite team that managed over 200 systems at over 30 global sites including k-root, a critical piece of Internet infrastructure. We also developed datasets for a large Hadoop cluster and a highly dynamic web UI. On top of that we maintained plenty of legacy, but managed to meet our goals with good prioritisation and automation.	Python PXE Ansible Splunk Hadoop Cisco/Juniper Java RHEL CFEngine TSDB DNS MySQL
2008 → 2010	SOFTWARE ENGINEER & TRAINER for PORTAONE on various aspects of their VoIP solutions, including customer training, coordinating development and implementing a distributed billing engine.	C/C++ RTP Python Java Perl Oracle
2006 → 2008	SYSTEM ENGINEER & HACKER for THE GAMBIA COLLEGE , where I set up a 200 PC network and customized FOSS solutions for the library and others. The third-world setting offered some unique challenges.	Win 2003 Ruby Java PHP PostgreSQL
2005 → 2006	APPLIANCE ENGINEER for CAI NETWORKS , mostly independently launching a new global load-balancing appliance.	Busybox uClibc Redhat DNS
2003 → 2005	RESEARCH PROGRAMMER for THE UNIVERSITY OF ROCHESTER , where I had the privilege of building a data routing solution for the Tevatron.	IRIX C/C++ GTK ROOT
2003 → 2005	ALL-AROUND FREELANCER on RENT-A-CODER , where I worked extensively on desktop apps, drivers, system roll-outs and related projects.	C/ObjC Java Ruby Linux
2002 → 2003	MOBILE DEVELOPER for TRANSPORTATION SYSTEMS PLANNING in my hometown of Lebanon, NH, where I started my professional career.	Ruby Palm Debian Postgres