

# DEVIN BAYER'S HOLISTIC COMPUTING AGENCY

## PROGRAMMER / OPERATOR

DISTRIBUTED ANALYTICS, HUMAN-ORIENTED DESIGN, SYSTEM AUTOMATION

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### GOAL

My quest is to seek out better methods of producing and maintaining software systems, for myself or society at large. Since childhood I've found myself tangled up in all sorts of computing problems; from assembly to physics to mobiles to huge clusters to the web. Thus I have an feeling what works and what does not; an affinity for modest, straightforward ar-

chitectures and a weariness of perfection are important examples. While not above racking servers or carving out technical docs, if creating a domain specific language is the right way forward, I'm capable of that also. From you I'm looking for chances to apply those honed skills on external projects. In between gigs I wold best describe my time spent as research into the art of computing.

DURING...	I WORKED AS A...	USING...
2014 → Now	<b>INFORMATICS RESEARCHER</b> , 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.	Every available tool
2016	<b>SOFTWARE / SYSTEMS ENGINEER</b> for <b>IRDETO</b> , 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	<b>SOFTWARE / SYSTEMS ENGINEER</b> for <b>SANOMA MEDIA</b> , 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	<b>SOFTWARE, SYSTEMS &amp; DATA SCIENTIST</b> for the <b>RIPE NCC</b> 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 had a bunch of legacy responsibilities, but managed to meet our goals with good prioritization and automation.	Python PXE Ansible Splunk Hadoop Cisco/Juniper Java RHEL CFEngine TSDB DNS MySQL
2008 → 2010	<b>SOFTWARE ENGINEER &amp; TRAINER</b> for <b>PORTAONE</b> 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	<b>SYSTEM ENGINEER &amp; HACKER</b> for <b>THE GAMBIA COLLEGE</b> , 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	<b>APPLIANCE ENGINEER</b> for <b>CAI NETWORKS</b> , mostly independently launching a new global load-balancing appliance.	Busybox uClibc Redhat DNS
2003 → 2005	<b>RESEARCH PROGRAMMER</b> for <b>THE UNIVERSITY OF ROCHESTER</b> , where I had the privilege of building a data routing solution for the Tevatron.	IRIX C/C++ GTK ROOT
2003 → 2005	<b>ALL-AROUND FREELANCER</b> on <b>RENT-A-CODER</b> , where I worked extensively on desktop apps, drivers, system roll-outs and related projects.	C/ObjC Java Ruby Linux
2002 → 2003	<b>MOBILE DEVELOPER</b> for <b>TRANSPORTATION SYSTEMS PLANNING</b> in my hometown of Lebanon, NH, where I started of my professional career.	Ruby Palm Debian Postgres