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# BRUNO BRONOSKY

## Principal DevOps Automation Engineer and Trainer

### ABOUT

Born in the Appalachian mountains of West Virginia to a radio electronics technician, Bruno grew up in coal mining country where most of his classmates remain. He never threw a ball with his father, though they did attend a handful of Cincinnati Reds baseball games. They spent their nights and weekends soldering Heathkit projects from Radio Shack (my first computer was a [Heathkit H89](#)) and writing games and equation solvers in Borland Turbo Basic, then Turbo Pascal, and eventually Delphi. When calling his father in 1995 to tell him Bruno got his first professional programming gig, they both saw this like getting drafted into MLB. Every day Bruno feels like "the luckiest man in baseball" to have escaped the coal mines.

### What Bruno does:

- cloud computing: OpenStack Amazon Web Services, Microsoft Azure, Google Cloud Platform, Linode, DigitalOcean, Heroku
- container services: Docker, Kubernetes, Nomad, ECS, EKS
- infrastructure orchestration and automation with Terraform, Ansible, Chef, Argo
- infrastructure and capacity planning
- data center operations
- OpenVPN, SSH tunneling, network security
- troubleshoot network issues
- DBA for DynamoDB, Kafka, Cassandra, MongoDB, CouchDB, PostgreSQL, MySQL
- administer various Unix and GNU/Linux
- administer virtualization hosts and guests
- optimize RAID, swap, cache
- archaeology of code, protocol, process
- manage systems engineers, software developers
- manage vendors, contractors
- manage client SLAs, vendor SLAs
- study complex systems and make them accessible to various audiences
- (review, recommend) application {architecture, code}
- maintain SDLC process
- develop web and mobile applications
- architect {cloud, web, mobile} solutions
- {develop, deploy} {iPhone, Android} apps
- {develop, deploy} {Cordova, React Native} HTML5+CSS3+JS apps
- {audit, deploy} {developer code, data migrations}
- {transform, migrate} data
- audit application code for security and performance

### What Bruno is:

- teacher
- strong verbal and written communicator
- excellent troubleshooter, debugger, and problem bisector
- unrepentant command line addict
- ambiguity assassin

### WORK EXPERIENCE

#### Confidential: International Airline

2022 – 2023

#### Contract: Trainer of DevOps Engineers

- Value: >\$10B Employees: >90k
- CI/CD with Harness.io, AWS infrastructure with CDK+CFN, Migration to Github Enterprise from 5 other VCS
  - architect and develop an internal ML/AI Software Development Co-Pilot trained on internal code repos to reduce code "re-invention" and time/effort

#### Confidential: Cyber Security and Biometric Identity Org

2022 – 2022

#### Contract: Trainer of DevOps Engineers

- Value: >\$3B Employees: >10k
- CI/CD with CloudBees/Jenkins and Argo-CD
  - software testing with SonarQube, JMeter, and various other tools

#### Confidential: Financial Services Org

2021 – 2022

#### Contract: Trainer of Robotics, Computer Vision, and Machine Learning Engineers

- Value: >\$1T Employees: >225k
- Robotics R&D, Machine Learning, Computer Vision, Software Development, Network & Physical Architecture, DevSecOps, Linux System Administration
  - ROS 1&2 [Robotics Operating System], Dobot CR5, Python, C++

#### Confidential: Chemical Engineering R&D and Production Org

2021 – 2021

#### Contract: Trainer of DevOps Engineers

- Value: >\$10B Employees: >90k
- CI/CD with Jenkins, SonarQube, JMeter, various software testing tools
  - AWS infrastructure and network security architecture
  - Architected an internal ML/AI Software Development Co-Pilot trained on internal code repos to reduce code "re-invention" and time/effort

#### Rooms To Go

Dunwoody, GA

2018 – 2021

#### Principal DevOps Engineer

- Direct and train a department of DevOps Engineers and SREs.
- Train developers to follow DevOps & CI/CD processes.
- Architect Hybrid-Cloud and Multi-Cloud infrastructure.
- Set and enforce security practices.
- Develop tools and services in bash, Node.js, Python, and Go.
- Design, build, and deploy Docker containers, API Gateways.
- Automate and orchestrate infrastructure with Packer and Terraform.
- Build and maintain [Fargate] ECS, EKS, and Kubernetes clusters serving microservices.
- Manage AWS costs.
- Make and document changes to AWS infrastructure via aws-cli.
- Manage network security with AWS Security Groups, iptables, and OpenVPN.
- Maintain MongoDB and DynamoDB databases.

#### MidAmerican Energy Services

Dunwoody, GA

2016 – 2018

#### DevOps Team Leader

- Orchestrate infrastructure with Packer, Terraform, Chef, and Ansible.
- Build and maintain Kubernetes clusters serving microservices.
- Develop tools in Python, Go, bash, awk, sed, CircuitPython, and Arduino.
- Build and maintain Cassandra, MongoDB, and MySQL databases.
- Build custom Raspberry Pi images for IoT devices sent to client locations.
- Design and CNC mill custom IoT hardware cases.

#### Cox Media Group [Technology]

Atlanta, GA

2012 – 2016

#### Solution Architect, Mobile

- Develop mobile client and backend POCs.
- Architect and deploy cloud infrastructure.
- Develop and maintain original Open Source software projects.
- Workflow and process automation.
- Lead mobile architecture and technical strategy.
- Present and teach.

#### Cox Media Group [Technology]

Atlanta, GA

2009 – 2012

#### Software Development Manager

- Co-Managed a ~30 developer team.
- Improve performance through coaching.
- Encourage and inspire developers and vendors to give great service.
- Workflow automation scripting.
- Architect and develop software.

#### Cox Media Group [Technology]

Atlanta, GA

2008 – 2009

#### Internet Systems Manager & MySQL DBA

- Administer GNU/Linux servers.
- Manage a department of sysadmins.
- Workflow automation and config management.

#### Cox Media Group (Atlanta Journal-Constitution)

Atlanta, GA

2007 – 2008

#### MySQL DBA

- Administer MySQL.
- Optimize developer code.
- Maintain high availability and performance.
- Develop extra Django and Rails projects.

#### Yahoo!

Atlanta, GA and Sunnyvale, CA

2004 – 2007

#### Technical Yahoo!

- Manage teams, projects, SLAs.
- Automate workflows.
- Develop PHP web applications.
- Administer FreeBSD, Apache, MySQL.

#### Apple Computer

Atlanta, GA

2004 – 2004

#### Business Sales Specialist

- Exploit my expertise to lure businesses away from Microsoft products for the greater good of the universe.

#### Lanier Worldwide

Atlanta, GA

2002 – 2004

#### Web Application Developer

- Manage and train developers on CVS, security policies, and best practices.
- Develop PHP CMS and software deployment system.

#### MedCenterDirect

Atlanta, GA

2000 – 2002

#### Lead Solutions Developer

- Develop PHP applications, portals, and commerce solutions.
- Architect custom deployment strategy.
- Script data migrations.

#### Amazing Graphics

Atlanta, GA

1999 – 2000

#### Digital Designer/Production Artist

- Create graphics for vinyl wrapping, buildings, trade shows, etc.
- Administer network and Mac, NT, Solaris/Unix systems.

#### Freelance

USA and Ireland

1998 – 2004

#### Consultant

- Consult in LAMP stack, networking, web development, client application development, Q/A, automation, graphic design.

#### World Wide Development

Ashland, KY

1995 – 1998

#### Webmaster

- Develop (as a market pioneer) DB driven web solutions using HTML, JS, Perl, C/C++, ColdFusion, MS SQL
- Rack servers, run cables, and miscellaneous data center work.
- Answer phones on the customer support line (while writing code).

### VOLUNTEER

#### DecaturMakers

<https://decaturmakers.org/about/whats-in-the-space/>

2015 – Present

#### Instructor

With the mission "to empower a community of builders, creatives, and learners", Decatur Makers "envision[s] a world where anyone can make anything".

- Built and raced 2 Power Racing Series electric vehicles
- Taught skills in programming, Arduino and other microprocessors, soldering, electrical engineering, lithium battery assembly and safety
- Taught skills in welding, wood working, maintenance of bicycles, motorcycles, and cars

#### Habitat for Humanity International

<https://atlantahabitat.org/volunteer/>

2013 – Present

#### Roofing Skill Supervisor

I started out as a Cox employee volunteering for a single day on a Clark Howard build. It was Day 1, so I came back every weekend to see the whole project completed. (Because I'm that kind of person.) At the end of the build the leader said, "Great! Now that you've completed the 7 week training, pick a specialty so we can get you certified and put you to work." So, "I didn't really set out to be a supervisor, but it has been one of the best experiences of my life.

### CONTACT

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Resume (pdf)  
<https://richardbronosky.github.io/resume/pdf/>

Resume (printable)  
<https://richardbronosky.github.io/resume/html/>

Not a Cover Letter  
Community Involvement

GitHub  
RichardBronosky

StackOverflow  
Bruno-Bronosky

LinkedIn  
Bruno-Bronosky

X ; Twitter  
RichardBronosky

### SKILLS

Amazon Web Services master

CDK, CFN, EC2, ECS, EKS, Fargate, EBS, RDS, S3, Lamda, CloudFront, GuardDuty, SNS, SQS

Automation/Orchestration & CI/CD master

Terraform, Ansible, Chef, CloudFormation, CDK, Jenkins

Machine Learning, Artificial Intelligence intermediate

Language Model, LLM, Neural Network, Transformer, GAN; Generative Adversarial Network, Computer Vision, NLP; Natural Language Processing, TensorFlow, PyTorch, Mojo, automatic1111, oobabooga

Kubernetes, Docker, and containers advanced

containerd, Podman, Helm, Argo-CD; Argo Project

GNU/Linux and BSD Server Administration master

Linux, FreeBSD, OpenBSD, MacOS, Arch Linux, BTW, Debian, RHEL; Red Hat Enterprise Linux, CLI; Command Line Interface, SSH, Systemd; systemctl, System V; SysV Init, LSB; Linux Standard Base

Bash/Shell Scripting master

POSIX sh, GNU Bash, Zsh

Graphics master

Adobe Creative Suite, OpenSCAD, FreeCAD, Fusion 360

Web Development master

HTML, CSS, JavaScript; ECMAScript, PHP

Interpreted Languages intermediate

Node.js, Python

Compiled Languages beginner

Rust, Go/GoLang, C/C++

### INTERESTS

Outdoors

Camping, Hiking, Rock Climbing

Maker

Welding, Metal Machining, Woodworking, 3D modeling, 3D Printing, PEV; Personal Electronic Vehicles, FPV; multirotors/drones

Automation

Home Assistant, Tasmota, Node-RED, MQTT

Electrical Engineering

SBCs; RaspberryPi, MPUs; Arduino, ESP32, IoT, DIY Mechanical Keyboards, Ham Radio, LoRa, Software Defined Radio

Robotics

ROS Robotics Operating System, Arm, Actuator, and End Effector design, BLD; Brushless DC Motors, ESC development; [Vetter] Electronic Speed Control

Jeeps and Motorcycles

Jeep Wrangler, Harley-Davidson Dyna Glide, Kawasaki KLR650

Skydiving

USPA Class A License, Packing my own PD Sabre-2 190 parachute

### EDUCATION

1997

University of Kentucky  
Computer Engineering and Systems Analysis