# Ryan Scott Brown

i@rsb.io

SUMMARY I build tools and infrastructure for developers, security practitioners, and cloud operators. I do my best work alongside a team that learns from each other, and is excited about their projects. My background in operations and decade+ of experience makes me uniquely focused on writing observable, reliable software and automating ops tasks. I love puns, and would appreciate hearing your favorite pun.

Skills Certifications AWS Solutions Architect Pro & Associate Languages Python, TypeScript, Rust, Go, Bash Tools CDK, CloudFormation, SAM, Ansible, Serverless Framework, Pulumi, LATEX

## EXPERIENCE **Crunchyroll** – Remote

Principal Engineer

https://crunchyroll.com/ Engineering Enablement team lead, with scope to work across the Product & Engineering organization on developer experience, platform, and process problems. Took over incident review and operations review processes and drove improvements in site reliability. Led internal trainings on infrastructure, serverless, and database practices. Contributed to new interview and onboarding processes to more efficiently grow engineering teams.

#### Stedi – Remote

Serverless Software Engineer

Enabled pay-per-use billing for Stedi services and reduced API latency by re-architecting billing to remove billing calls from customer request paths. Designed fraud prevention and entitlement checking tools to prevent malicious usage of Stedi resources. Built telemetry and billing Lambda Extensions in Rust. Used AWS CDK, TypeScript, and Github Actions to maintain Kinesis streams, Athena/Glue tables, and Lambda functions supporting BI and billing.

#### Vendia – Remote

Principal Engineer

Architected AWS management tools to isolate workloads per-customer in thousands of AWS accounts, following Vendia's STAMTI SaaS tenancy model. Designed and implemented application features, data storage, and control-plane tools. Led infrastructure projects to maintain security boundaries and enable product observability. Built a canary-driven deployment service to enable continuous delivery and reduce lead time. Implemented GraphQL schema generation and parsing tools in Python. Partnered with SA team for post-sales implementation.

#### Trek10. Inc. – Remote

Lead Architect, Team Support

Led mixed client/Trek10 engineering teams on 4+ projects at a time for cloud migrations, application refactors, and security projects. Served as the lead architect and technical contact for client engagements from pre-sales through delivery. Public work included blog posts, webinars, and conference talks to drive inbound sales.

### Red Hat. Inc. – Remote

Principal Software Engineer, Ansible

Built Ansible Core/Engine and AWS-related features upstream to the Ansible project. Created automated qa-scale-lab testing environment for testing Ansible against thousands of targets built on AWS ECS. Lead engineering partner for AWS and Google Cloud Platform. Prior to Ansible acquisition, submitted features and fixes upstream to the OpenStack Heat (Orchestration) project and downstream to RDO/RHOS.

#### Hudl – Remote/Lincoln, NE

DevOps Engineer https://hudl.com/ Created Python metrics/analytics applications and used Chef to manage infrastructure behind a high-scale video delivery application. Improved AWS infrastructure security posture and created incident response procedures.

Google – Pittsburgh, PA June – August 2012 Software Engineering Intern https://google.com/ Wrote infrastructure management software in Python and C++. The project saved time and money by managing requests for maintenance-related downtime without impacting availability.

# Newstex, LLC – Remote

Cloud Engineering Intern https://newstex.com/ Developed WSGI applications to deliver news stories to customers using EC2, S3, SQS, and SimpleDB.

#### **Rochester Institute of Technology** – Rochester, NY Education **B.S.** Applied Networking and Systems Administration Minors Software Engineering, Applied Communications

https://rsb.io/

2023 - Present

2009 - 2013

2011 - 2012

2022 - 2023

https://stedi.com/

2020 - 2022

https://vendia.com/

2018 - 2020https://trek10.com/

2014 - 2018

https://redhat.com/

2013 - 2014

Open	AWS Role Speed Demon - Author	https://github.com/ryansb/arsd/
SOURCE	A desktop app to manage sessions and roles for one or more AWS	1 0 1
Sconce	surfaces frequently used accounts, caches available accounts and roles, and opens isolated browser sessions to simplify	
	multi-account operations.	····· ································
	PynamoDB Polymorph - Author	https://github.com/ryansb/pynamodb-polymorph/
	PynamoDB-Polymorph is an extension for PynamoDB to support	
from The DynamoDB Book, PynamoDB-Polymorph adds compound keys, compressed attributes, and count		
	Serverless Framework - Contributor	https://github.com/serverless/serverless/
	Contributed to early development of Serverless Framework, includi	
	for function versioning to enable rollbacks after deploy.	
	Ansible-Container - Contributor	https://github.com/ansible/ansible-container/
Ansible Container is a Python tool to build Docker images using Ansible playbooks, replacing shell scripts and Do files. It makes migrating to containers easier and less error-prone by allowing reuse of existing Ansible playbooks To do this, Ansible Container acts as a shim during the container build process to run each role and save the resu		Ansible playbooks, replacing shell scripts and Docker-
		by allowing reuse of existing Ansible playbooks roles.
		build process to run each role and save the result as
	a layer.	
PUBLICATION Seamlessly caching MongoDB Atlas Momento Blog		
	Creating Order in Unordered Data Stores - Dynamol	÷
	Intro to AppSync Video Course	A Cloud Guru
	GraphQL Applications with the Serverless Framewor	
	AWS Lambda Video Course	A Cloud Guru
	Serverless Software	Talk Python to Me Podcast
	FaaS and the Benefits of Serverless	HeavyBit Podcast
	Harmonizing Serverless and Traditional Applications	
	Cloud Management with Ansible	AnsibleFest San Francisco
	Hybrid Orchestration: Cloud Services and Ansible	Red Hat Summit 2018
	Ansible for Serverless Orchestration	AnsibleFest New York

Red Hat Summit 2017

Inclusive Tech Buffalo

ServerlessConf Brooklyn

Hybrid Infrastructures with Google Cloud Platform and Ansible

**Open Source Culture and Serverless Applications** 

Beginner and Intermediate Python