

Ryan Tuck

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Over ten years of backend and data team experience at startups at all stages of growth, I've developed an in-demand skillset that's likely to provide a positive return to your organization. If you let me, I'll maintain your production app, manage your team, coach your engineers, stand up your cloud from scratch, containerize your infrastructure, automate your deploys, run your analytics workloads, minimize your complexity, firefight your outages, help your organization develop a taste for chugging the AI kool-aid, and lead your people.

Wisdom

Complexity is the velocity killer. Premature optimization is the root of all evil. Code is meant to be read by humans and only incidentally executed by machines. Don't be smart, just restart. Stop duplicating state, network is fast in the cloud.

LLMs

Doomer since before being a doomer was a thing, read Bostrom in 2015, Yudkowsky will be on the right side of history, still mostly use them as a better google, steeped enough in it all to run any agentic frontier model at your org

Python

You probably actually want to use setup.py but are using requirements.txt because you read to do that online when you set up your deployment two years ago and don't understand why you're seeing dependency issues with pip. Also, pandas is overkill.

SQL

Not every problem calls for a relational database, CTEs help readability, Postgres is a fine choice, UPDATEs are an antipattern for large workloads, online alembic migrations are painful at times

AWS

Good default cloud, IaC is the ideal, battle scars from RDS, DynamoDB, S3, Lambda, EC2, Fargate, IAM, API Gateway, etc etc etc, GCP is the same thing with a prettier interface

Localdev

vim, make, jq, xargs, unix pipes is a fine toolkit

Docker

Containers are virtuous if you can get Docker installed on your machine correctly, k8s is probably overkill

BI

BigQuery, dbt, Looker is a sweet stack, dimensional modeling and Kimball are probably overkill, spreadsheets are the lingua franca of data, pivot tables are cool

Hardware

I went from dabbling with Arduino and Raspberry Pi to raising thousands of dollars on Kickstarter for a hardware product I built from scratch, unleaded solder is harder to work with

Rise8

Senior Software Engineer
GovTech
2025-05 - Present

- › Launched and maintained devcontainer image for consistent claude code development experience across org
- › Wired up and evangelized for GitHub Codespaces usage across org for secure remote development environments and lower barrier to entry for designers / PMs
- › Leveraged agentic workflows with Claude to produce multiple full-stack prototypes for quick-turnaround client contract bids
- › Implemented IaC for GitLab deployments into secure customer environments conforming to CMMC standards

Macrocosm

Consultant
Economics Simulations
2025-01 - 2025-05

- › Full-time software consultant for Oxford University research group seeking to scale and modernize economic simulation pipelines
- › Stood up Google Cloud orchestration infrastructure from scratch to enable cloud-scale simulations of energy networks
- › Containerized academic python scripts and notebooks and deployed to Google Cloud Run
- › Stood up Google Cloud Composer (Airflow) for overall orchestration layer for simulation pipelines and ETL tasks

AngelList

Senior Software Engineer
Finance, B2B/B2C
2024-07 - 2024-12

- › Maintained and fine-tuned LLM document classification and parsing workloads interfacing with GPT-4 and Claude
- › Maintained production backend serverless document service using TypeScript, ElasticSearch, CDK
- › Maintained production monolith codebase in Ruby, GraphQL, React

Horizon3.ai

Engineering Manager,
Backend
Cybersecurity, B2B
2022 - 2024-06

- › Senior engineer on and later manager of the backend team of seven engineers and oversaw all aspects of backend application development for hundreds of clients on our autonomous penetration testing platform
- › Maintained production GraphQL API, PostgreSQL database, data warehouse, and orchestration framework in AWS
- › Coordinated with Attack, Systems, and Frontend team leads on shipping all major product features
- › Architected data lake to support rapid analytics on identifying breaking N-day vulnerabilities discovered in the wild

Songspace

Tech Lead, Data Exchange
Music, B2B
2020 - 2022

- › Led Data Exchange team, responsible for onboarding all new record label clients onto the platform
- › Built serverless infrastructure using lambda capable of massive parallel throughput for parsing tens of thousands of audio and image files
- › Wrote custom EDI parser for standard ancient music industry rights data format (CWR)
- › Performed complete migration and deprecation of legacy infrastructure to infrastructure-as-code for team resources

Warby Parker

Tech Lead, Data Engineering
Fashion, D2C
2015 - 2020

- › Grew from junior engineer to senior engineer to tech lead of team of five BI engineers serving hundreds of corporate users
- › Taught regular SQL 101 courses to 100+ colleagues over a few years
- › Led design and implementation of core data model rebuilds and Looker restructure, to take advantage of consistent dimensional modeling techniques
- › Wrote lookmlint, the first open-source linter for LookML
- › Translated all existing SQL build processes to dbt as an early adopter of this now-ubiquitous stack
- › Architected original python orchestration framework and importantly transitioned workloads to Airflow

Northeastern University

Physics and Philosophy

Bachelors of Science
2007 - 2012