ANDREW DAI

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Technical and organizational problem solver, cloud and database knower

Experience

Andrew Helps You for a Reasonable Fee (Consultant) *Remote* January 2023 - *present*

Twitter (Senior Software Engineer) *San Francisco, California* and *Remote* August 2022 - January 2023
- Mentored team of four junior engineers, including coaching on incident response and retrospective best practices
- Took over project to integrate code review tooling with Slack

Meter (Software Engineer) *San Francisco, California* and *Remote* June 2021 - July 2022
- Led implementation and aided design of core next-gen control plane infrastructure and services (device configuration, RPC mechanism, message bus integration, access point management)
- Helped automate legacy provisioning to dramatically improve deployment capabilities (>2x more reliable, >10x faster)
- Entirely rebuilt continuous integration system (>2x faster, same cost, more self-serve)
- Socialized best practice team, process, and project-organizing techniques by leading a book club and discussion group
- In-house PostgreSQL expert and de facto Terraform/AWS owner

Heap (Software Engineer, Data Platform) *San Francisco, California* and *Remote* January 2018 - May 2021
- Spearheaded adoption of Golang and worked on modernizing legacy codebase via service and API-first approach
- Owned a petabyte-scale PostgreSQL cluster — improved reliability by >10x, query performance by >2x, saved millions $/year, and led backend development of new analysis features, including Path Analysis
- Established systems and processes for understanding and controlling AWS spend
- Wore many other hats including blog post author, open source contributor, and DEI advocate. I also onboarded my entire team, and interviewed ~90% of new grads in 2019 and most engineering management

Square (Intern) *San Francisco, California* and *Remote* Summer 2017, October 2017 - January 2018
- Updated tools and utilities for host maintenance, application monitoring, and deployment configuration management
- Created a health monitoring service used in critical infrastructure, reducing network load

HackGT (Director, formerly Tech Team) *Georgia Tech, Atlanta, Georgia* December 2015 - November 2017
- Led a team of students who raised over $250,000 in sponsorship funding and organized events for over 1,000 students
- Started a "learnathon" to address disparities in local K12 CS education — 300+ high school students attended
- Shifted outreach focus to under-represented minorities in STEM and created beginner-friendly environments
- Doubled the size of the organization and increased the scope to better serve undergraduates at Georgia Tech

Applied Predictive Technologies (Intern) *Washington, D.C.* Summer 2016

InterSystems Corporation (Intern) *Cambridge, Massachusetts* and *Remote* Summer 2015, Sept 2015 - Mar 2016

Education

Georgia Institute of Technology *Atlanta, Georgia* August 2014 - May 2018
Bachelors of Science in Computer Science with Highest Honors and a minor in Sociology
- Research: Developed novel data visualizations at the Information Interfaces Lab under the direction of Dr. John Stasko

Skills

- Languages: Golang, JavaScript (Typescript and, unfortunately, Coffeescript), SQL, Python, Rust, Scala, Elixir
- Tools: PostgreSQL (CitusDB), Linux, Terraform, AWS (EC2, ECS, RDS, S3, SQS...), Buildroot, Ansible, Docker, Redis