nccurdyc • McCurdyColton • in mccurdycolton

Work Experience

2017-Now **StockX**, **LLC** • (Remote), Senior Software Engineer.

- · Scaled software and organizational systems as the 10th engineer, to support 10x traffic and Engineering organization growth.
- · Designed, implemented and iterated upon a pipeline for managing dynamic prices on Google Shopping. Almost half of the company's monthly marketing spend is invested in Google Shopping, resulting in it being responsible for a significant percentage of daily sales.
- Piloted full-time remote work for the company.
- · Co-lead and assisted in the development of adding continuous integration and deployment (CI/CD) pipelines to all backend services.
- · Contributed to the internationalization of the website (i.e., support for multiple currencies and languages).
- Mentored developers transitioning to Go as the company adopted the language on the backend.
- · Established and enforced a testing infrastructure and runbook standard for backend services.
- Assisted in creating a centralized wiki to document system intricacies and design decisions.
- · Migrated Go services to use a standardized, multi-stage Docker build, reducing Docker image size by 120%.

Technologies

Language(s): Go

Amazon Web Service, SQS, SNS, Lambda, DynamoDB

Docker, Kubernetes, Terraform

Service Oriented Architecture, REST PostgreSQL, NoSQL (Redis, DynamoDB)

Version Control with Git

Open-Source Software

splitfile: Suggests partitions of Go packages into multiple files to improve readability.

• https://github.com/mccurdyc/splitfile

neighbor: GitHub search with arbitrary concurrent acquisition and exploration of open-source projects.

• https://github.com/mccurdyc/neighbor

mrstudyr: Retrospectively studying mutant reduction strategies.

• https://github.com/mccurdyc/mrstudyr

Publications

2018 Automatic detection and removal of ineffective mutants for the mutation analysis of relational database schemas, Phil McMinn, Chris J. Wright, Colton J. McCurdy and Gregory M. Kapfhammer Transactions on Software Engineering, 2018.

2016 mrstudyr: Retrospectively Studying the Effectiveness of Mutant Reduction Techniques, Colton J. McCurdy, Phil McMinn, Gregory M. Kapfhammer

Proceedings of the 32nd International Conference on Software Maintenance and Evolution.

2016 SchemaAnalyst: Search-based test data generation for relational database schemas,

Phil McMinn, Chris J. Wright, Cody Kinneer, Colton J. McCurdy, Michael Camara, Gregory M. Kapfhammer Proceedings of the 32nd International Conference on Software Maintenance and Evolution.

Education

B.S. in Computer Science, Allegheny College, Adviser: Dr. Gregory M. Kapfhammer May 2017

 Cumulative GPA: 3.525 / 4.000 In-Major GPA: 3.656 / 4.000

Best Senior Thesis Award 2016-2017

A departmental award recognizing a student for writing the best undergraduate thesis.

2015-2016 Outstanding Junior Major

Recognizes a junior majoring in computer science who has achieved the highest GPA in departmental courses.

Alden Scholar (Dean's List)

Completed a minimum of 30 credit hours and achieving a grade point average of 3.20 or higher.