Pittsburgh, Pennsylvania, USA +1 814-795-2717 coltonjmccurdy@qmail.com www.mccurdyc.dev

nccurdyc • McCurdyColton • in mccurdycolton

Work Experience

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

- · Piloted full-time remote work for the Engineering team as the first full-time remote employee in the company.
- · Designed, implemented, maintained and thoroughly-documented a pipeline for managing a dynamic market's products on Google Shopping responsible for a large portion of the company's monthly marketing spend.
- · 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 pervasively on the backend.
- · Established and enforced a testing infrastructure and documentation standard for backend services.
- · Developed a wrapper of the Redis library in Go to distribute load to read-only replicas.
- · Migrated Go services to use a standardized, multi-stage Docker build, reducing Docker image size by 120%.
- · Co-lead and assisted in adding continuous integration and deployment (CI/CD) pipelines to all backend services.
- · Assisted in creating a centralized infrastructure wiki to document system intricacies and design decisions.
- Experienced scaling software and organizational systems as the 10th engineer and the company faced more than 10x Engineering organization and traffic growth.

Technologies

Proficient: Go

Working Experience: JavaScript (Node), PHP (Magento) Serverless Framework

Amazon Web Service, SQS, SNS, Lambda, DynamoDB

Docker, Kubernetes, Terraform

Service Oriented Architecture, REST

Redis, PostgreSQL, NoSQL (DynamoDB)

Version Control with Git

Open-Source Software

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

airtable-expenses: A migration tool for moving personal expenses from Google Sheet to Airtable.

• https://github.com/mccurdyc/airtable-expenses

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

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

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

2016-2017 Best Senior Thesis Award

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) 2013-2016

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