

Work Experience

- March 2020 **Fastly, Inc.** • (Remote), *Software Engineer*.
- Now • Co-maintained an automated tool which reduced onboarding costs from approximately 2-weeks to 2-hours.
- May 2017 - **StockX, LLC.** • (Remote), *Senior Software Engineer*.
March 2020 • 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.
 - Migrated Go services to use a standardized, multi-stage Docker build, reducing Docker image size by 120%.

Technologies

Language(s): Go
Amazon Web Service, Google Cloud Platform

Docker, Kubernetes, Terraform
Service Oriented Architecture, REST

Open-Source Software

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

- <https://github.com/mccurdyc/neighbor>

splitfile: A static analysis that identifies partitions of declarations and their uses to improve the readability of Go packages..

- <https://github.com/mccurdyc/splitfile>

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

- May 2017 **B.S. in Computer Science, Allegheny College, Adviser: Dr. Gregory M. Kapfhammer**
• Cumulative GPA: 3.525 / 4.000 In-Major GPA: 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.
- 2013-2016 **Alden Scholar (Dean's List)**
Completed a minimum of 30 credit hours and achieving a grade point average of 3.20 or higher.