

## Work

### Senior Software Engineer

2016 - Present

### Software Engineer

2015 - 2016

RALLY HEALTH

rallyhealth.com

- Built foundations for greenfield microservice-based application.
- Scaled microservice based architecture to millions of customers.
- Served on-call, managed production deploys and live-site support.
- Architected and optimized multiple ETL pipelines.
- Utilized modern reactive stream technology.
- Mentored and helped junior developers grow.
- Built tooling and common infrastructure.

functional programming  
microservices  
healthcare

### Lead Project Developer

2013 - 2015

GEORGE MASON UNIVERSITY

honorscollege.gmu.edu

- Developed peer-review research aid for university students.
- Maintained multiple Linux servers hosting online content.
- Collaborated with research mentors to increase service value.

python  
education  
open source

### Java Programming Consultant

2012 - 2013

HARMONIA

harmonia.com

- Created components of a Learning Classifier engine.
- Collaborated with project manager on systems architecture design.
- Designed and implemented complex graphical user interfaces.

java  
machine learning  
contracting

## Skills

<b>Languages</b>	Scala, Java, Python, Javascript, Typescript, SQL, C, HTML, CSS, R, PHP
<b>Frameworks</b>	Akka, Play, Angular, Django, Flask
<b>Databases</b>	Postgres, Elasticsearch
<b>Tools</b>	Bash, Git, Docker, sbt, npm, gpg, svn, Jenkins
<b>OS</b>	Linux, Mac, Windows

## Education

M.S., Computer Science, GEORGIA INSTITUTE OF TECHNOLOGY

2017 - 2018

B.S., Computer Science, GEORGE MASON UNIVERSITY, *summa cum laude*

2011 - 2015

## Publications

- What Are We Teaching?: Automated Evaluation of CS Curricula Content Using Topic Modeling. In *Proceedings of the eleventh annual International Conference on International Computing Education Research*.
- Usability and Suitability Survey of Features in Visual IDEs for Non-Programmers. In *Proceedings of the 5th Workshop on Evaluation and Usability of Programming Languages and Tools, PLATEAU '14*.
- Parallel Hierarchical Affinity Propagation with MapReduce. In *2013 IEEE 5th International Conference on Cloud Computing Technology and Science (CloudCom)*.