

Anna Burzillo

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Work Experience

GitPOAP

Senior Backend Programmer (First Hire)

New York, NY
February 2022 - May 2023

- Owned, designed, and developed all backend code and infrastructure
- Created custom GitHub workflows to test and rollout code and database changes in a predictable way
- Created Docker Compose setup to facilitate integration testing and allow frontend developers to test against a local setup of the backend
- Developed repeatable infrastructure provisioning scripts to create AWS setups for both a production and staging environment
- Mentored junior developers via code and design reviews

Bloomberg LP

Infrastructure Champion with DevX: Static Analysis & Automated Refactoring

New York, NY
May 2018 - August 2021

- Created tools that analyze the firm's codebase with C++ and Haskell to perform various bug/anomaly detection and refactoring tasks
- Designed and architected a set of microservices for high-throughput, high-load, real-time source ingestion and analysis of the firm's entire codebase
- Contributed a constant propagation framework to open source for creating propagations of deterministic constants of arbitrary type through C/C++ function source units
- Spent personal time creating an automatic data gathering framework and aggregated web-based display for a company-wide initiative. The tool has since been adopted and contributed to by multiple organizations across the company with heavy use by management

Bloomberg LP

Infrastructure Champion with Listed Derivatives

New York, NY
June 2015 - May 2018

- Designed and implemented improvements to a non-transactional in-memory database for large volumes of read and write operations per second
- Developed low-latency, real-time services backing applications for traders in the listed options market, churning out pricing, volatility, and greeks on the order of milliseconds
- Created Chef/Terraform-based automation to facilitate quick machine configurations and turnarounds in both cloud and server based environments
- Devised a library and related tools to automate multi-step, laborious processes for both my own as well as my team's use. The library and tools now have 1000+ daily users and have been taken over by the teams in their area to maintain as the de-facto tools for these problems/workflows

Technical Skills

- **Languages:** C/C++, Haskell, Python, TypeScript, Solidity, bash
- **Frameworks:** Chef, Docker, Docker Compose, LibTooling, React, Terraform, web3
- **Operating Systems:** Linux (RHEL/CentOS & Ubuntu), Mac OSX, Windows, Solaris, AIX
- **Software:** cron, dpkg, geth, git, Jenkins, quilt, redis, stack, svn, systemd, tmux, vim, postgresql
- **AWS:** API Gateway, CloudFront, EC2, Lambda, RDS, Route 53, S3, ECS, ECR, CodeBuild, ELB, ElastiCache

Talks

The Good, the Bad, and the Ugly: Haskell in Enterprise

NY Haskell Meetup

New York, NY

May 2019

F-Algebras or: How I Learned to Stop Worrying and Love the Type System

NY Haskell Meetup

New York, NY

November 2016

Education

The Johns Hopkins University

B.A. in Mathematics with a second major in Computer Science

GPA 3.54; Dean's List – Fall 2011, Spring & Fall 2012

Baltimore, MD

May 2015

Please refer to GitHub for my personal projects