

Colin Fike

<https://colinfike.github.io/>

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EDUCATION

- **University at Buffalo, SUNY**

Bachelor of Science in Computer Science; GPA: 3.582

Buffalo, NY

Fall. 2010 – Dec. 2014

EXPERIENCE

- **Dictionary.com**

Backend Engineer

San Francisco, CA

July 2018 - December 2019

- **Fastly Custom VCL:** Wrote and was responsible for custom VCL that controlled CDN logic for 12 properties handling ~4000 requests per second at peak traffic. Tune cache key function and vary header functionality to achieve a ~90% hit rate on main properties despite legacy restrictions.
- **Backend Content APIs:** Created Node APIs that serve dictionary/thesaurus content to front end applications at average rates of 100-200 requests per second each at peak traffic. Implemented a stop gap mobile API by manipulating legacy data sources and formatting API responses to include inline formatting/markup to enable complete migration off legacy PHP monolith and support the legacy mobile application.
- **Content Ingestion Pipeline into RedisGraph:** Designed and created an ingestion pipeline to import multiple independent XML data sources into a common graph format in RedisGraph via Cypher. Enable processing on hundreds of thousands of connected nodes before being exported into ElasticSearch.
- **AWS Infrastructure:** Maintained and created the infrastructure on AWS including Elastic Beanstalks, Application Load Balancers, VPC, EC2, CloudWatch, Route 53, ElasticSearch/Kibana clusters, Lambdas, S3, Fargate, Kinesis, and others. Migrated to Terraform to simplify creating new and maintaining old infrastructure. On call for production issues across stack.
- **Header Bidding:** Created front end package to enable header bidding with Pubmatic/A9 via Google DFP first price bidder system. Write sub-15ms latency lambdas for real time markup of bid prices returned from ad exchanges based on placement data and to provide floored bids in situations where no bids were made by ad exchanges.
- **CI/CD Pipelines:** Created and maintained CI/CD pipelines using Gitlab CI Runners to build and test production Docker images that were uploaded to AWS ECR and deployed to Elastic Beanstalks. Enabled ability to deploy code within minutes of it being merged into master.
- **MongoDB Clusters:** Managed MongoDB clusters that provided thesaurus and dictionary data to backend APIs. Processed greylist/whitelist across MongoDB cluster holding ~19 million example sentences and restored to production in zero downtime deployment.

- **Chewse**

Full Stack Engineer

San Francisco, CA

May 2017 - March 2018

- **Self-Service Prix Fixe Meal Checkout:** Implemented new checkout flow that enables users to browse, schedule, and purchase a meal without having to go through customer support. Reduce time to schedule a meal from a day or more to several minutes.
- **Client Facing Frontend/Backend Redesign:** Implement new meal calendar, adhoc order requests, dynamic feedback forms, and other pages in new framework, Vue.js. Create/Update APIs to support new frontend functionality. Streamline frontend and reduce load time for clients to see scheduled meals by 75%.

- **Mainstreet Computing**

Senior Software Engineer

Buffalo, NY

Fall 2014 - February 2017

- **Insurance Application Processing Proxy:** Lead development of proxy service that consumed an insurance application payload in JSON format, dynamically navigated the Healthcare.gov application, and saved the result of the application in PDF format using Ruby on Rails.

PROJECTS

- **YogoPremium:** Command line tool written in Go used to subscribe to YouTube channels and download latest videos since the last download to your local machine for offline playback.
- **JudgeGo:** Personal Discord bot written in Go with functionality to create sound clips from YouTube videos, sound clip playback via voice channels, Markov chain and sentence generation from user message history, and moderate channels.

PROGRAMMING SKILLS

- **Languages:** Node.js, Go, VCL, Python, Ruby, SQL, CSS/HTML, Java/C++ (Working Knowledge)
- **Technologies:** Docker, Fastly, AWS, MongoDB, Redis, Terraform, React, Heroku, ElasticSearch, Kibana, Unix