Email: clifreeder@gmail.com https://clifff.com/ Github: https://github.com/clifff

## Profile

Hello! I am a Washington D.C. based software engineer looking for consulting and contract opportunities. I specialize in in designing and building stable, scalable consumer-facing websites and refactoring large codebases. Below is a list of some notable projects I have worked on.

## EXPERIENCE

Vox Media Washington D.C.

Principal Full-Stack Engineer

Jan 2011 - March 2015, April 2016 - April 2017

- o Continuous Integration (CI) Infrastructure: Designed and led the migration to a comprehensive CI ecosystem for 30+ applications using Jenkins, Docker and Chef. Reduced test suite run time from 25 minutes to 10.
- Syllabus Live Blog: Built a live blogging platform backed by Amazon S3 for The Verge that handles 1.2 million unique users during iPhone events. Click to read a blog post with more details.
- Ruby and Rails Upgrades: Upgraded a monolithic Rails app with 81k+ lines of code from Ruby 1.8 and Rails 2.3 to Ruby 2.1 and Rails 3.2 with no downtime. Click to read a blog post with more details.
- Image Processing: Migrated all image processing in the Vox Media CMS to use the open source Thumbor project. Profiled and optimized performance issues in order to support resizing 1.3+ million images a day. Contributed several pull requests written in Python and C back to the main project.

## Tricky Think LLC

Washington D.C.

Founder

September 2015 - April 2016

- Analytics Pipeline: Built an analytics pipeline for a client using AWS Lambda, Firehose and Redshift to track effectiveness of e-commerce referrals promoted through advertising campaigns. Using this stack, the cost effectiveness of new campaigns could be analyzed in Tableau graphs in minutes.
- Ottoneu Fantasy Sports: Worked with Ottoneu to refactor their real time auction draft system to increase stability and support four times as many users without additional hardware. We also containerized their development environment using docker-compose to make on boarding new developers easier.

#### The Human-automation Interaction and Cognition Lab

Ann Arbor, MI

Simulation Developer

May 2010 - August 2010

- Anesthesia Simulation: Designed and developed a simulated anesthesia tool-set (ventilator, vital signs display, drug table, etc) for use in an industrial engineers PhD research. Written it C++, it used four touch screen monitors for input and networked with another computer that simulated the operating table.
- Research Database Management: Created and maintained a MySQL database for analysis of simulation data for an industrial engineering PhD candidates research. Wrote an AJAX/PHP web interface to batch upload/parse data, and generated data analysis per research requirements with PHP and SQL queries.

# TECHNICAL SKILLS

- Languages and frameworks: Ruby with Rails and Sinatra, Python with Django and Tornado, Go, Javascript via Node.js, PHP
- Technologies: Docker, AWS (EC2, S3, Cloudfront, Lambda, Firehose, SES), Varnish, Chef, Ansible, Git, MySQL/Postgres, Redis, Jenkins, ElasticSearch, WebPageTest, Thumbor, StatsD, InfluxDB, Grafana

### EDUCATION

## University of Michigan

Ann Arbor, MI

B.S.E. in Computer Science Engineering

2010