

DAVID OUYANG MOENCH

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Skills: golang, javascript, python, UNIX, bash, git, vim, AWS, GCP, react, d3, postgresSQL, redis, kubernetes, docker, chef, gatsby, graphQL, webGL

Github: <https://github.com/domoench>

Site: <https://davidmoench.com>

EXPERIENCE

[12/2017 – 12/2018] **Freelance Backend Software Engineer. Unacast** – NYC

Worked on backend services in a distributed file transfer pipeline moving terabytes of data per day.

- Implemented utilization, saturation, and error metrics for system visibility and automated API tests in the CI build for deployment reliability.
- Architected and implemented new backend services including a helm/kubernetes-orchestrated service for the creation and management of S3 buckets and access credentials for use by other backend services, and a distributed task queue service for file transfer job management.
- Used: golang, kubernetes, helm, GCP, goa API framework.

[1/2015 – 3/2017] **Software Engineer. Datadog** – NYC

Contributed to all levels of the application stack, from streaming metrics ingestion (millions of data points per second) and backend service scaling, to frontend real-time d3 graph visualizations and UI features.

- Implemented Datadog's metric metadata system, used for displaying units in visualizations across the site and auto-generating metrics documentation.
- Improved query performance with database sharding, caching services, and an ETL pipeline to analyze query patterns from backend service logs.
- Member of the ops 24/7 on-call rotation, serving as the first responder to production issues.
- Conducted engineering interviews.
- Used: golang, python, javascript, postgres, redis, consul, AWS, linux, looker, pagerduty.

[3/2017 – 1/2019] **Blubox** – Baltimore

Designed and built a tiny house out of structural insulated panels. <https://blubox.house>

[2014] **Research Assistant. UT Austin Computational Visualization Center** – Austin, TX

Obtained funding, conducted research, and implemented a software tool with Python and Matplotlib for use by neuroscience researchers to visualize neuronal connectomics data acquired through fMRI.

EDUCATION

[2012 – 2014] **B.S. in Computer Science. University Of Texas** – Austin. GPA: 3.98.

[2005 – 2009] **B.A in Music. Wesleyan University** – Middletown, CT. Graduated with honors.

MISC

Volunteering: Girls Who Code teacher at Urban Assembly Unison School in Brooklyn. Fall 2017.

Interests and Hobbies: Music composition, design + construction, guitar, web development, sustainability, journalism, bike repair

Language: Elementary Chinese