

Katherine Beck

📍 Fairfax, Virginia 📧 kathmbeck ✉ katherine.murphy.beck@gmail.com 📞 7135946192

Professional Experience

Senior Software Engineer, Netlify (acquired Gatsby in Feb 2023) 02/2023 – present

- Full-stack role, with backend-focus, on the Gatsby Cloud transition and Netlify CDN teams.
- Contributed to the development of Netlify's Image CDN API, specifically automating content negotiation, enabling user configuration for remote image domains, and adding support for this feature in the Netlify CLI tool.
- Developed plugin and adapter functionality to enable Gatsby framework users to utilize Netlify's Image CDN.
- Played a critical role in the beta development of Netlify's WAF (web application firewall), including the creation of a Golang CLI tool for generating and interacting with the rule set for use in our edge services.
- Made an open-source contribution [🔗](#) to the Terraform AWS provider to support cross-account attachments for our edge network configuration.
- Implemented Clickhouse database models for Netlify's background function usage and metering data, integrating them into the analytics pipeline using Kafka; additionally, created reusable functionality for banning the misuse of background functions in our edge services based on specific abuse patterns by user accounts.
- Supported Gatsby Cloud amidst a downsized team post-acquisition, including extensive on-call responsibilities.
- Developed scripts and processes for customer migration from Gatsby Cloud to Netlify, including automation of workspace shutdowns, Stripe subscription management, and tooling to ease migration efforts.

Senior Software Engineer, Gatsby, Inc 10/2021 – 02/2023

- Full-stack role, with backend-focus, on the Content Workflows team.
- Implemented incremental deploys, leading to a 10x improvement in deployment times for large content-heavy websites. Independently led this project from the beta to GA release.
- Engineered source plugin modifications for Sanity, Contentful, and DatoCMS to enable content synchronization and preview features on Gatsby Cloud.
- Introduced usage of encrypted URLs for Image CDN routes, enhancing security against SSRF/XXS vulnerabilities.
- Contributed to the initial proof-of-concept for Valhalla, which was Gatsby's GraphQL data layer made framework-agnostic and central to Gatsby's acquisition by Netlify. Collaborated on creating a node package to read data changes from a ledger and spearheaded the implementation of initial tracing functionalities for the feature.
- Developed a personal access token feature for enterprise users, including a UI component.
- Participated in the on-call rotation, focusing on system maintenance and continuous improvements. as well as debugging customer issues.

Co-Creator, Software Engineer, Tapestry [🔗](#) 05/2021 – 10/2021

- Designed, prototyped, and implemented Tapestry, an open-source pipeline orchestration framework for user entity data, with both data ingestion (ELT) and syncing components (reverse ETL).
- Implemented interactive CLI application available as NPM package.
- Automated provisioning of AWS infrastructure via CLI, CloudFormation, and Docker Compose ECS integration.
- Created a dashboard for the observability of infrastructure, as well as pipeline management and maintenance.
- Co-authored Tapestry's technical white paper [🔗](#) and produced all front-end assets and animations.

Full Stack Web Developer, Self-Employed 2019 – 2021

- Developed open-source software using Node.js, Express, Ruby, Sinatra, PostgreSQL, React/Redux, HTML/CSS.

Speech-Language Pathologist, Department Head 2014 – 2020

- Provided comprehensive evaluation and treatment for pediatric clients with speech/language disorders.

Skills

Backend

Node.js, Express,
Ruby/Rails, Sinatra, Golang,
SQL, MongoDB, PostgreSQL,
RESTful APIs, GraphQL,
Webhooks

Frontend

Javascript/Typescript,
React/Redux, Gatsby,
HTML/CSS, TailwindCSS

Cloud

AWS (EC2, ECS, Fargate, ALB,
ECR, S3, AGA), GCS (Cloud
Build, Cloud Run, Spanner,
GCS, Big Query), Snowflake,
Clickhouse

Tools

Git/Github, Postman,
Docker, DBT, Imgix, Fastly,
ElasticSearch, Grafana,
Humio, Datadog, Looker

Education

Capstone Program - Software Engineering, Launch School [🔗](#) 2019 – 2021

Master of Science in Speech-Language Pathology, Rush University 2012 – 2014

Bachelor of Arts in Communication Studies; Business Minor, 2005 – 2009
Northwestern University