

Katherine Murphy Beck

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Professional Experience

- 2021 **Co-Creator, Software Engineer, Tapestry** [🔗](#)
- Designed, prototyped, and implemented Tapestry, an open-source pipeline orchestration framework for user entity data. Tapestry automates the deployment of a warehouse-centric pipeline, with both data ingestion (ELT) and syncing components (reverse ETL).
 - Built a robust and easy-to-use CLI with Node.js and published it as an NPM package.
 - Automated provisioning and teardown of AWS cloud infrastructure via AWS CLI, CloudFormation, and Docker Compose ECS integration.
 - Created a dashboard for observability of infrastructure, as well as pipeline management and maintenance, using React/Redux, Node.js, Express, and TailwindCSS.
 - Developed the CloudFormation template to provision AWS resources for the data ingestion component, including required security groups and IAM roles.
 - Automated Snowflake warehouse setup and configuration via the snowflake-promise library.
 - Wrote logic to inject user secrets into a Docker container at runtime for deployment of the data syncing component to an ECS Fargate Cluster.
 - Collaborated with a remote team of engineers, including daily standups and pair programming.
 - Co-authored Tapestry's comprehensive technical white paper [🔗](#) and produced all front-end assets and animations for Tapestry's website and tech talk.
- 2019 – 2021 **Full Stack Web Developer, Self-Employed**
- Developed open-source software using Node.js, Express, Ruby, Sinatra, PostgreSQL, React/Redux, vanilla JavaScript, HTML, and CSS.
 - Selected Projects:
 - **Reaction** - full-stack project management app inspired by Trello using React/Redux, an Express RESTful API, MongoDB.
 - **Airline Routes** - an interactive SVG map for viewing and filtering airline routes built with React and bootstrapped with Create React App.
 - **MessageBucket** - Request Bin clone built using Node.js/Express, JavaScript, PostgreSQL Database, Webhooks, and ngrok.
 - **Todos** - a todo tracker built with Node.js, Express, JavaScript, Handlebars, HTML and CSS.
 - **Language Sample Analyzer** - an app for transcribing early language samples and automating structural analysis using Ruby, Sinatra, ERB
- 2014 – 2020 **Speech-Language Pathologist, Department Head**
- Provided comprehensive evaluation and evidence-based treatment for pediatric clients with speech and language disorders in the private clinical setting.

Skills

Backend

Node.js, Express, Ruby, Sinatra, Go, SQL, MongoDB, PostgreSQL, RESTful APIs, Webhooks

Frontend

Javascript (ES6), JQuery, Handlebars.js, React/Redux, HTML/CSS, TailwindCSS

Cloud

AWS (Cloudformation, EC2, ECS, Fargate, S3, ALB, IAM, ECR), Snowflake, Heroku, Digital Ocean

Tools

Git/Github, Postman, Docker, DBT

Education

- 2019 – 2021 **Capstone Program, Launch School** [🔗](#)
Multi-year full-stack software engineering curriculum emphasizing mastery of core skills and programming fundamentals.
- 2012 – 2014 **Master of Science in Speech-Language Pathology, Rush University**
GPA: 4.0; College of Health Sciences Dean's Award for Outstanding Academic Achievement
- 2005 – 2009 **Bachelor of Arts in Communication Studies; Minor in Business, Northwestern University**
GPA: 3.8; Graduated Cum Laude