

# 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