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 an end-to-end 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.
  - **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.
  - **MessBucke**t - Request Bin clone built using Node.js/Express, JavaScript, Postgres 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	**Frontend**	**Cloud**	**Tools**
Node.js, Express, Ruby, Sinatra, Go, SQL, MongoDB, PostgreSQL, RESTful APIs, Webhooks	*Javascript (ES6), JQuery, Handlebars.js, React/Redux, HTML/CSS, TailwindCSS*	*AWS (Cloudformation, EC2, ECS, Fargate, S3, ALB, IAM, ECR), Snowflake, Heroku, Digital Ocean Droplets*	*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