

Leeya Davis

📍 New York City ✉ leeya463@gmail.com 🌐 leeyadavis.dev 🐙 LeeyaD

I am a software engineer with multiple years of experience with Ruby, JavaScript, various front-end and back-end frameworks, and other technologies. I am a co-creator of Twine [🔗](#), an open-source solution for managing WebSockets at scale with connection state recovery.

📁 EXPERIENCE

Co-Creator, Software Engineer, Twine [🔗](#)

08/2023 – present

Twine is a scalable drop-in Real-time as a Service that abstracts away the complexity of real-time communication and provides connection state recovery

- Designed and implemented logic governing connection state recovery using token authentication
- Enabled long-term state recovery by implementing a long-term storage solution (**AWS DynamoDB**)
- Implemented short-term state recovery by introducing a write-through caching strategy (**AWS Elasticache for Redis**)
- Improved long-term state recovery by engineering a more performant database query (**DynamoDB**)
- Resolved synchronization issues when scaling Twine by implementing Redis Adaptor logic (**Redis**)
- Streamlined the process of purging outdated data from Redis through automation (**cron**)
- Facilitated communication between the developer's application and Twine by writing a Node SDK package that manages user WebSocket connections and the publish-subscribe messaging mechanism Twine employs (**Socket.IO, Node.js, TypeScript, Redis, AWS DynamoDB, OOP Design**)
- Automated deployment of Twine and its provisioned AWS cloud infrastructure by assisting in the design of the CLI tool leveraging AWS CloudFormation (**AWS CloudFormation, Elastic Beanstalk, EC2, Application Load Balancer, IAM**)
- Collaborated remotely with an international team of four engineers across three time zones, employing agile methodologies and practices such as pair programming and code reviews
- Authored a technical case study providing an in-depth analysis of Twine's problem domain, system design, and engineering decisions (<https://twine-realtime.github.io/#four> [🔗](#))

Software Engineer, Self-Employed

07/2022 – 08/2023

- Request Inspect - Tool for viewing/debugging webhooks (**WebSocket server, Nginx, MongoDB, Express, React**).
- Todo Tracker - A database-backed, single-page application for managing to-do lists (**Ruby, PostgreSQL, Sinatra, ERB, Digital Ocean Droplet**)

Various positions held throughout 10+ years in Civil Service,

12/2009 – 07/2022

Human Resources Administration | Department of Health and Mental Hygiene

During my tenure as a team member and supervisor, I developed and honed my tactfulness and improved in my ability to adapt, manage my time, think critically, problem-solve, and collaborate well with others.

English Teacher, Teach and Learn in Korea (TaLK)

07/2014 – 07/2016

TaLK was National program sponsored by the Korean Ministry of Education

- Built rapport with school staff by enhancing my ability to adapt and being mindful of cultural differences
- Improved the English & cultural awareness of disadvantaged students in the countryside through engaging lesson plans

🧠 SKILLS

Front End

JavaScript, React, HTML/CSS, TypeScript, Handlebars, Sinatra

Misc. Technologies

Git/Github, Docker, Nginx, VS Code, Redis, Jest, Webhooks, HTTP, WebSockets, Postman, Mongoose, Bash

Back End

Node.js, Ruby, Express, SQL, PostgreSQL, MongoDB, REST APIs, TypeScript, Go

Cloud

MongoDB Atlas, AWS (DynamoDB, Elasticache for Redis, EC2, ALB, ELB, CloudFront, IAM, S3), DigitalOcean droplets, Heroku, Fly.io