Leeya Davis

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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- Streamlined the process of purging outdated data from Redis through automation (**cron**)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, PostreSQL, 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 drawing on 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

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

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

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