

# Sarah Voshall

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I'm a full stack software engineer with extensive experience in JavaScript and Ruby, as well as proficiency in TypeScript and Go. As a pianist also, I'm happy to spend most of my time at a keyboard.

## 📁 PROFESSIONAL EXPERIENCE

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**Creator and Software Engineer, Snowclone**  2024 – present

Snowclone is a secure open-source BaaS that streamlines the deployment of cloud infrastructure for databases and APIs that support realtime sync for frontend applications.

- Developed a containerized multi-server architecture for portable backends that provides friendly APIs for schema migration, REST, and realtime sync powered by a Postgres database. (*Node.js, Express, SSE, Docker*)
- Engineered a secure schema migration API server which allows multipart form uploads and storage for SQL files and a realtime API server to monitor database changes and broadcast updates to clients. (*Node.js, Express, PostgreSQL, SSE, API keys*)
- Designed a secure cloud deployment configuration that prioritizes scalability and cost-efficiency, cutting the cost for each instance by 60%. (*AWS, ECS Fargate, ELB, RDS, Secrets Manager*)
- Leveraged Terraform to automate provisioning of the 55 resources needed for each instance and to manage the state of projects deployed to AWS.
- Built a CLI to manage the the lifecycle of projects in AWS via Terraform from initializing the admin infrastructure to deploying multiple projects to tearing down. (*npm*)
- Authored a comprehensive technical case study detailing the problem domain, system design, and engineering decisions. 
- Collaborated remotely with a team of four engineers across three regions using agile workflow. (*Slack, GitHub*)

**Software Engineer, Self-employed** 2021 – 2023

Developed open-source applications including:

- *Froggin's Bakery* – a realtime, scalable inventory management app (Node.js, Express, Postgres, React, SSE, Docker, AWS)
- *Rekwestbin* – a tool for collecting and debugging webhooks (Node.js, Express, MongoDB, EJS, Digital Ocean, Nginx)
- *CC Buddy* – a SPA for tracking credit card benefits (Ruby, Sinatra, Postgres)

**Collaborative Pianist and Music Educator, Self-employed** 2010 – present

- Collaborated with orchestras, ensembles, choirs, and soloists
- Taught private piano lessons and managed 30+ students at a time, also taught group classes at public and private schools

## 🧠 SKILLS

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### Backend

Node.js, Express, Ruby, Sinatra, Go, PostgreSQL, MongoDB, REST APIs

### Cloud

AWS (ECS, IAM, ELB, RDS, S3, DynamoDB, Lambda, EC2, Route 53, ACM, Secrets Manager), Digital Ocean, Heroku, Fly.io

### Frontend

JavaScript, TypeScript, React, Handlebars, HTML/CSS

### Other

Git/GitHub, Docker, Terraform, Jest, HTTP/S, WebSockets, SSE, Nginx, Postman, cURL, Linux, Bash, OOP

## 🎓 EDUCATION

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**California Institute of the Arts (CalArts)**  
BFA Classical Piano Performance

2017 – 2020 | Valencia, USA