

Derek Bruinooge

Software Engineer

📍 Grand Rapids, MI ✉ derek.bruinooge@gmail.com 🖱 derekbruinooge.dev

Professional Experience

2023 – present
Remote, US

Creator, Software Engineer, *Symphony*

- Created Symphony, a cloud-native, open-source framework for adding real-time collaboration functionality to web applications
- Prototyped and deployed backend infrastructure to AWS services including ECS, S3, RDS for PostgreSQL, ElastiCache for Redis, and DynamoDB
- Developed a custom load-testing solution to identify limits of prototyped version
- Engineered a Redis pub/sub solution to horizontally scale WebSocket servers and increase system capacity by more than 40x
- Abstracted away complexities of deployment using AWS CDK and custom CLI tool
- Built a client library connecting web applications to the Symphony backend, and published it as an NPM package
- Authored Symphony's case study: <https://symphony-framework.github.io> 📄
- Prioritized scalability, fault tolerance, and separation of concerns when engineering solutions
- Collaborated with a remote team of 4 engineers using agile workflow

2021 – 2023
Remote, US

Software Engineer, *Self-employed*

A few of the projects & technologies used during this time:

- Terminal - Real-time application for receiving & debugging webhooks (Express, Node, React, Redux)
- Contact Manager - App for storing contact information (Express, Node, Handlebars)

Other Experience

2015 – 2022
Seoul, South Korea

Editor, *Bank of Korea*

- Refined language, improved clarity, and ensured consistency across English-language materials, including published reports and press releases

2013 – 2015
Seoul, South Korea

Content Developer, *Hackers Education Group*

- Wrote and edited TOEFL reading passages, lectures and questions

Technical Skills

Back-end

Node.js, Express, Ruby, Go,
PostgreSQL, MongoDB, RESTful
APIs

Front-end

JavaScript, React/Redux,
HTML/CSS

Tooling

Git/GitHub, Docker, Linux, Bash,
DigitalOcean, Heroku, AWS
(SAA-C03 certification)

Education

J.D., *University of Chicago Law School*

