

# Derek Bruinooge

## Software Engineer

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### Professional Experience

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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 - a real-time application for receiving & debugging webhooks (Express, Node, React, Redux)
- Todos: A todo tracking app (Node, Express)

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### Other Experience

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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

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### Technical Skills

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**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)

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### Education

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

