Derek Bruinooge

Software Engineer

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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* • Engineered a WebSocket backend deployed to AWS services including ECS, S3, RDS for PostgreSQL, ElastiCache for Redis, and DynamoDB • Designed, built, and containerized a custom scalable load-testing tool • Increased the capacity of the backend infrastructure by more than 40x from 240 to 10,000+ concurrent users by designing and implementing a Redis publisher/subscriber solution to horizontally scale WebSocket servers • Automated the deployment, configuration, and management of over 100 cloud infrastructure resources by building a CLI tool leveraging the AWS CDK and SDK libraries • Built and published an NPM package with a client library that enables web applications to connect seamlessly to the Symphony backend • Authored a case study on Symphony's engineering decisions and tradeoffs: https://symphony-framework.github.io ↗ • Collaborated closely with an international team of 4 engineers based in the US and UK
2021 – 2023 Remote, US	**Software Engineer,** *Self-employed* A few of the projects created & technologies used during this time: • Terminal - A real-time application for receiving & debugging webhooks (Express, Next.js, WebSocket, Nginx, PostgreSQL, MongoDB, RabbitMQ) • Procrasti-not - An application for tracking todos (Ruby, Sinatra, ERB, PostgreSQL)
2015 – 2022 Seoul, South Korea	**Editor,** *Bank of Korea* • Edited English-language materials, including published reports and press releases

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Technical Skills

Back-end	**Front-end**	**Tooling**
Node.js, Express, Ruby, Sinatra, Go, PostgreSQL, MongoDB, RESTful APIs	JavaScript, TypeScript, React/Redux, Next.js, Tailwind, HTML/CSS	Git/GitHub, Docker, Nginx, Linux, Bash, DO Droplets, Heroku, AWS, Agile workflow

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Certifications

AWS Solutions Architect - Associate *(SAA-C03)*   •   **Attorney** *(Michigan Bar Association)*

Education

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

B.A., Philosophy, *Western Michigan University*