

# Andrew R. Jones

📧 andrewrayjones.com 📍 Austin, TX ✉ andrewrayjones@gmail.com in jonesan2 🔄 jonesan2

## Profile

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I'm a full-stack software engineer with a passion for problem solving and experience in the Ruby and JavaScript ecosystems. I'm transitioning to software after eight years of teaching high school physics. I co-created Gander, an open-source review app solution that automatically deploys a full-stack preview application with every pull request.

## Experience

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### Co-Creator & Software Engineer, *Gander*

2021

[gander-framework.github.io](https://gander-framework.github.io) 📄

- Co-designed and built overall system architecture, spanning GitHub, Amazon Web Services, and the Gander CLI
- Co-designed AWS infrastructure, researching features and evaluating tradeoffs with respect to ECS Fargate, Amazon Elastic File System, load balancers, and public vs. private subnets
- Automated creation and transformation of AWS infrastructure with bash scripts and GitHub Actions
- Co-designed the review app build process, leveraging GitHub Actions, Docker, and Cloud Native Buildpacks
- Led routing implementation, using AWS application load balancer, target registration, and CNAME records
- Led writing and testing of Python/Django demo application
- Defined problem space and researched market space for drop-in review app solutions
- Co-authored technical case study exploring Gander's design challenges and solutions

### Software Engineer, *Freelance*

2018 – 2021

- Cello: Trello-like collaboration app built for MongoDB with a Node/Express backend and a React/Redux frontend
- RequestTub: React/Express app for capturing and monitoring webhooks, built using Socket.IO and with PostgreSQL storage
- Todos: Sinatra todo management app, built for PostgreSQL and using Erb

### Teacher, **Advanced Physics & Engineering**, *Hays CISD*

2013 – 2021 | Buda, TX

- Teacher of the Year Nominee; selected 14 times by a student from the Top 10% as their most influential teacher
- Launched high school robotics program; Coached UIL state finalist robotics team

## Skills

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### Languages

JavaScript, Ruby, SQL, HTML, CSS, Go

### Frameworks

React.js, Express.js, Sinatra, Ruby on Rails

### AWS Cloud

Amazon VPC, Amazon ECS, AWS Fargate, Elastic File System (EFS), Elastic Container Registry (ECR), Application Load Balancer, IAM, AWS CLI, CloudFormation

### Technologies

Docker, Git/GitHub, GitHub Actions, Cloud Native Buildpacks, HTTP, WebSocket, PostgreSQL, MongoDB, REST APIs, Redux, Heroku, Handlebars, Erb, Shell Scripting

## Education

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### Launch School

2020 – 2021

Multi-year mastery-based learning curriculum for software engineering | [launchschool.com/employers](https://launchschool.com/employers) 📄

### Ph.D., **Hebrew Language and Literature**, *University of Toronto*

2008 – 2015 | Toronto, Canada

### M.A., **Christian Studies**, *Regent College*

2004 – 2007 | Vancouver, Canada

### B.S., **Computer Engineering, with distinction**, *Purdue University*

1997 – 2001 | West Lafayette, IN