Andrew R. Jones

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Profile

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

Co-Creator & Software Engineer, *Gander*　　　　　　　　　　　　　　　　　　　　　　2021

gander-framework.github.io ⧉
- Designed and built overall system architecture, spanning GitHub, Amazon Web Services, and the Gander CLI
- 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
- 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 demo application
- Defined problem space and researched market space for drop-in review app solutions
- Authored technical case study exploring Gander's design challenges and solutions

Software Engineer, *Self-Employed*　　　　　　　　　　　　　　　　　　　　　　　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

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

Launch School　　　　　　　　　　　　　　　　　　　　　　　　　　　　　2020 – 2021
Multi-year mastery-based learning curriculum for software engineering | *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