

# Jonathan Strickland

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## Work Experience

### Metafy

*Senior Software Engineer (June 2022 - September 2022)*

- Backend Ruby development work using Hanami, Algolia, and GraphQL
- Laid off, along with 20% of the company, shortly after starting

### Recurse Center

*Participant (March 2022 - June 2022)*

- Reverse-engineered Super Smash Brothers Melee GameCube, creating a Rust program "melee-inject" to build new executable game images with replaced character textures
- Presented work in front of peers: "Parsing and Transforming Super Smash Bros. Melee". Presentation was featured as the first "Dispatches at RC" upload

### American Eagle Outfitters

*Systems Engineer (December 2016 - January 2022)*

- Built relationships with technology teams across the organization, working to understand needs, improving efficiency of code lifecycle and promotion pipeline
- Installed, patched, maintained, and upgraded diverse infrastructure including Atlassian Bamboo, Bitbucket, Concourse CI, JIRA, JFrog Artifactory, Pivotal CloudFoundry, F5 BIG-IP LTM
- Developed and maintained continuous integration pipelines for applications and provisioned infrastructure, empowering teams to create pull requests to apply changes, using Python, Bash, Rust, Haskell
- Worked in multidisciplinary team for initial deployment of eCommerce API Gateway, solving performance and reliability problems along the way
- Used Terraform to provision cloud environments, developing modules for different components of American Eagle infrastructure on AWS, GCP, GKE
- First responder for on-call rotation, addressing production AE.com issues, failures in build + deployment automation
- Used Terraform + Bamboo to create self-service "ephemeral environments" - when any UI developer opens a pull request, a new environment is launched, the new code is deployed, a DNS record is set up, the developer is sent a link to the live environment on their pull request to validate
- Received many awards and nominations from peers and managers, including 2019 Eagles Elite "in recognition of your determination to go above and beyond at AEO and exemplifying innovation and teamwork"

### Industry Weapon

*Contractor (December 2015 - June 2016)*

- Evangelized greater use of version control, unit tests, documentation among my teams, resulting in a self-hosted gogs (go git service) instance (eventually was used by all development teams)
- Developed and shipped many custom software integrations for our digital signage platform using modern development practices to meet customer needs, regularly automating time-consuming parts of the development process
- Used Flask to develop secure, RESTful APIs with token-based authentication to serve as a backend for web applications
- Automated deployment process for Python applications using single executable with dependencies and application code self-contained inside
- Identified, documented, began discussions about RCE vulnerabilities in core parts of our codebase
- Worked with other developers to fix bugs in a decade old PHP web application using Bugzilla

- Used Puppet and Ruby scripting extensively to automate configuration of dev and prod servers
  - Participated in regular on-call rotations, responded to production outages
  - Worked on a team of 3 to facilitate migration of customers from physical OpenVZ hosting provider to AWS, organizing downtime, executing migration for most hosts
  - Educated rest of team on infrastructure through meetings, recorded videos, thorough documentation
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- [NixOS/nixpkgs \(d4324a2c\)](#)
- [GHC 9.0.2 \(6554ff28\)](#)