

# Harry Seeber

Client Platform Engineer | [harry.seeber.io](https://harry.seeber.io)

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## Experience

### **Client Platform Engineer, Gusto, Denver** | 10/17 – 03/23

- Managed the configuration, lifecycle, security compliance, and patching for a 90% Mac fleet.
  - Maintained, iterated a high reliability system which scaled from 400 to ~5,000 devices.
  - Consistently enabled an IT Support to staff ratio of over 100:1.
- Helped pioneer the use of DevOps configuration management tools and processes for physical client devices.
  - Device configuration as code with Chef, Munki, & Autopkg.
    - Automated, version controlled management of MDM profiles via Chef and a Python middleware hosted in AWS Lambda.
    - This permitted an exceptionally quick & simple migration between MDM providers. 1 month to plan, validate, and execute.
    - Wrote and maintained multiple webhook and glue scripts in AWS, deployed with Terraform.
  - Automated package update pipeline with git-lfs, Autopkg, and Github Actions.
    - 89 packages automatically and consistently patched with no operator action.
    - Open source work - autopromote.py, an example GitHub action. Subsequent adoption and contribution from many IT teams, including large tech firms'.
  - Proactive monitoring for security threats, bugs in developer & IT management tools, and hardware instability using Datadog, Bugsnag, and Osquery.
  - Efficient and stable deployment of enterprise tools like CrowdStrike Falcon, Kerberos SSO, and Cisco Anyconnect.
  - While on rotation with a software engineering team, helped implement device management feature for [app.gusto.com](https://app.gusto.com).
    - Wrote complex full-stack (React, Rails, some Go) features.
    - With Terraform and Docker, defined and deployed SCEP and Nanomdm services.
    - Lead negotiation with an Apple team for Gusto's MDM vendor permission.
    - Served as subject matter expert and tech lead for MDM system design.
- Built Gusto's internal golinks app with Python (Flask). 5 years continuous deployment.
  - Subsequently integrated with third-party SaaS shortlink service (wrote CRUD module for vendor's REST api).
- Wrote a glue module integrating workday with a legacy Active Directory deployment. Continuous service has company scaled from 600 to ~2000 EEs.
- Touchless provisioning of user endpoints from the beginning of the COVID-19 pandemic.
- Several device trust deployments, including Zscaler and Okta Verify.

### **System Administrator, Programmer, Freelance, mostly S. America | 01/16 - 10/17**

- Clients from referrals and contractor profiles (eg. upwork.com); on-going on-call infra support for Connectworkz and other small businesses.
- Contracts both remote and on-site, generally lasting less than 150 days, with occasional independent travel.
  - On-site infrastructure and client setup & pentest for two Panamanian enterprises.
  - Infrastructure migration for a concert tickets startup.
  - Custom monitoring tool for a rural ISP, built with Python (Flask) and Heroku.
  - Removal of embarrassing social media posts for a job seeker via social engineering.
  - During a pentest, gained access to an on-site Hikvision security camera system with just a Chromebook, Crouton, and google.com.
- Extensive independent education: perused courses freely offered online by Harvard, MIT, and similar institutions - rarely simply in service of a specific contract.
  - Basics of Python, Ruby, particularly Flask, Django, and Rails.
  - The use of common exploits & related open source tooling like metasploit.
  - Basic data structures and OO patterns, largely from MIT Open Learning.
- Improved my Spanish, made questionable friends.
  - The walls of the police station of a town named Little Sheets bear a group photograph: me, that morning's patrol, and a dozen boxed donuts.

### **System Administrator, mostly Denver, Connectworkz | 01/15 – 02/16**

- Connectworkz provides CMS (Wordpress, Joomla) development, design, and hosting for local small businesses.
- As sysadmin, managed, rebuilt, simplified infrastructure for ~1000 virtual hosts. Learned:
  - Common BSD and GNU tools, {z,ba}sh shells, some Python
  - Docker, \*nix system administration, automation, and ansible
  - Basic services offered by AWS, Heroku, GCP, &c.
- Automated my job.

### **Editor & Reporter, Denver, Capitol Communications | 01/14 – 01/15**

- Reported, wrote, assigned, and edited short articles on local government and society of central Denver. City council meetings, zoning commission public comment hearings, the doings of small-scale civil society and local precincts.
- A family firm - maybe nepotism - but not done for my profit. Undertaken to stabilize my parent's business. Helped ensure a successful sale.

### **Crew & Skipper, worldwide, various yachts | 01/09 – 08/09, 01/10 - 01/13**

- Learned to handle crisis and ambiguity with aplomb
  - Survived a shipboard fire in Polynesia, a gale in the Bass Strait, and being broke in a foreign country.
- 15m sloop *Blue Sky*; Cayman Islands → Colón, Panama; unpaid crew
- 40m sloop *Philkade*; Colón → Canal → Polynesia → Cairns → Thailand; crew
- 20m schooner *One World*, Panama ↔ Colombia x12; crew & occasional skipper
- 15m sloop *Red Dingo*; Port Phillip, Melbourne → Bass Strait → Eden, NSW; skipper

### **Education**

- 3rd year credits towards a degree in Economics from Montana State University, Bozeman and latterly the University of Colorado, Denver. Incomplete.
- International Baccalaureate program, George Washington High School, Denver. Graduated.
- Apprenticeship, Gannon & Benjamin Marine Railway.
- Self directed research and didactic projects. I'm an apt learner, a constant reader, and a script kiddie.