

# Charles Ging

Denver, CO

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<https://charlesging.github.io/>

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## EXPERIENCE

### **RedPoint Notebooks** - CO-CREATOR, SOFTWARE ENGINEER

10/2019 - PRESENT

- Co-created a web-based, multi-language computational notebook built with Node, WebSockets, ReactJS, and Docker
- Allows editing and execution of Ruby, JavaScript, and Python within the same browser window
- Custom-built a dispatch server:
  - Proxies WebSocket messages between client & container
  - Initializes and tears down Docker containers using Docker remote API
  - Manages user session data in Redis
  - Acts as MongoDB middleware
- Buffered incoming webhook data using a Redis queue
- Secured containers & their file systems using tightened default user permissions
- Secured host system from malicious users using Google's gVisor secure container runtime
- Implemented Linux control groups to prevent resource monopolization
- Persisted webhook and notebook data with MongoDB
- Deployed on Google Cloud Platform
- Authored comprehensive case study for project : <https://redpoint-notebooks.github.io/>

### **Self-Employed** - FULL STACK DEVELOPER

01/2018 - 10/2019

- Wrote full stack web applications using Javascript, React, Ruby, Rails, NodeJS, SQL, HTML/CSS :
  - **Trellioh** : Responsive list-management app built with React/Redux and Rails
  - **Postit** : Reddit-like app built with Ruby/Rails & PostgreSQL
  - **Airline Tracker** : React app for filtering flight itineraries by airport and airline

### **Elephant Delicatessen** - LEAD CATERING EXPEDITOR

01/2012 - 12/2017

- Oversaw daily operations of a department that attained \$900,000 in sales in 2016

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## SKILLS

Ruby • JavaScript • Node.js • Rails • Sinatra • Docker • SQL • PostgreSQL • Redis • MongoDB • React • Redux • jQuery • HTML • CSS • Git • Google Cloud Platform • REST • OOP • Heroku • Linux

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## EDUCATION

**Launch School** - Software Engineering & Full-stack Web Development

2018-2019

**Lawrence University** - BA French, BA Music Performance

2005-2009