


# CHARLES FENWICK ELLIOTT

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 FenwickElliott

## Software Engineering and Development

A scientific background and temperament has fostered my need to understand everything from the ground up. Consequently, I am always looking for ways to optimize and strip every extraneous byte.

## Recent Projects

### BonBon

Working with the incomparable Paul Etienne Lincoln on an art instillation which takes a subject's biometric signature and compressed Parisian air to prepare a chocolate uniquely encoded to them:

- Single-handedly designed and implemented the mechanics
- Arduino circuit boards, pin by pin soldering
- Required constructing synchronous functionality from a single perpetual asynchronous loop

### Open Source

Official Golang contributions:

- Currently #15 contributor on Golang's OAuth2 package
- A use case PR on Google's go-github repo transforming it into a CLI

### ElectroBullet

Desktop client written for the PushBullet SMS service:

- Electron: HTML5, CSS3, JavaScript, Node.js
- Cross platform: distribution, notifications and application storage

### Snatch (A/B learning experiment)

Constructed the same app in numerous environments. Snatch consumes the Spotify API to add the currently playing track to a designated playlist.

Each included:

- Cross platform utilization
- User management, data persistence, OAuth2 authentication
- Handling errors and documentation gracefully

Implementations were:

- Ruby script, Rails web app (Heroku), Rack web app (Apache server on Raspberry Pi), Golang script, Android app

### DevOps

Hosted my personal site in various environments:

Raspberry Pi:

- Apache server, local router, required writing a utility script to periodically ping my (non-static) local IP address to notify myself when it changed.

Amazon Web Services:

- S3, Route 53, CloudFront, IAM, WorkMail

Google Cloud Platform:

- Firebase, Cloud SDK, Analytics, G Suite user management

### Kaggle Titanic

Machine learning challenge to predict passenger survival based on redacted data:

- 81.339% Accuracy (4th percentile)
- R, Feature Engineering, Decision Trees, Random Forests, Conditional Inference Trees

## Relevant Experience

### Fenwick Elliott

Freelance

2018-Present

Various freelance contracts across all aspects of technological services.

### Just-Tech

Technical Assistant (full time)

2016-2017

Contractual Work

Ongoing

A small MSP where I worked on all facets of researching, implementing, debugging and maintaining tech services for our legal clients.

### Hospitality

Floor Manager

2013-2015

General Manager

2015-2016

Started as a bus-boy, worked up to manager before switching industries.

## Education

### Bloc

2017-2018

Software Development Track

Intensive, immersive and challenging course covering all facets of software development from front-end to complexity growth rates.

### University of Bristol

2007-2010

B.Sc. Chemistry

Concentration in computational practices, dissertation on utilization of asymptotic tending in equipartition calculations of graduated complexity levels.

## Technical Skills

Golang, JavaScript, Node.js, Ruby, Rails, SQL, NoSQL, DevOps, AWS, GCP, Git, Bash

## Other Interests

Chess, Rugby, Literature, Food, Wine, My Wife