

CHARLES FENWICK ELLIOTT

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Software Engineering and Development

A scientific background and tempement has fostered my need to understand everything from the ground up concequently I am always looking for ways to optomise and strip extrania.

Recent Projects

BonBon

Working with the incomperable Paul Etienne Lincoln on an instillation which takes a subjects biometric signature and compressed Parisian air to pneumatically prepare a uniquely encoded chocholate:

- Single-handedly designed and implimented the mechanics
- Arduino circuit bords, pin by pin soldering
- Required synchronous functionality from a single asynchronous loop

Open Source

Offical Golang contributions:

- Currently #15 contributor on Golang's OAuth2 package
- Use case 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 basic app in numerous enviroments. Snatch consumes the Spotify API to add the currently playing track to a designated playlist.

Each had include:

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

Implimentations were:

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

DevOps

Hosted my personal site in various enviroments:

Rasperry Pi:

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

Amazon Web Services:

- S3, Route 53, CloudFront, IAM, WorkMail

Google Cloud Platform:

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

Kaggle Titanic

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

- 80.861% Accuracy (6th percentile)
- R, Feature Engineering, Descision Trees, Random Forests, Conditional Inference Trees

Relevent 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, implimenting debugging and maintainting tech services for our legal clients.

Hospitality

Floor Manager 2013-2015
General Manager 2015-2016
Started as a bus-boy at 16, 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 varying levels of complexity.

Technical Skills

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