


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

Bartender

2010-2013

Floor Manager

2013-2015

General Manager

2015-2016

Started as a bus-boy, worked up to manager before switching industries. I learnt a lot about gastronomics, resourceful thinking, team management and graceful multi-tasking

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

References

Excellent references are available from all previous employers