CHARLES FENWICK ELLIOTT

Charles@FenwickElliott.io / +1 (917) 365-9424 405 W23rd st, New York, NY, 10011
CFenwickElliott FenwickElliott

SUMMARY

Software engineer, backend developer, Gopher with an insatiable need to understand everything in order to make it lean and elegant.

EDUCATION

Bloc.io
Software Development 2017

University of Bristol
Bsc Chemistry 2010
Dissertation in computational chemistry

SKILLS

LANGUAGES: JavaScript, Ruby, Golang, Arduino
UTILITIES: Node.js, Electron, OAuth2, Git, Bash

PROJECTS

BonBon

Working with the incomparable Paul Etienne Lincoln on a machine which transposes a subject's biometric signature into a uniquely encoded chocolate:

- Singlehandedly designed and implemented the electro-mechanics according to the artistic criteria,
- Arduino, Pneumatically driven injection, Gyroscopic wrapping mechanism, Pin by pin soldering,
- Required constructing synchronous functions across numerous motors and sensors with a single perpetual asynchronous loop per circuit board,

ElectroBullet

A desktop client for the PushBullet SMS service:

- Electron: HTML5/CSS3/JavaScript/Node.js,
- Cross platform: implementation, distribution, notifications, storage and packaging,
- Custom: Error handling, Promise chains, No non-native dependencies,

Snatch (A/B learning experience)

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

- Offer cross platform utilization,
- Manage users, data persistence and OAuth2 authentication,
- Handle errors and documentation gracefully,

Implementations were:

- Ruby, Rails, Vanilla Rack, Golang, Android,

Open Source

Various Golang contributions:

- A use case for go-gitbhub transforming it into a CLI,
- Currently #15 contributor to Golang's oauth2 package,

DevOps

Raspberry Pi:

- Apache server, local router, wrote utility to notify myself if my IP changed

Amazon Web Services:

- S3, Route 53, CloudFront, IAM, WorkMail,

Google Cloud Platform:

- Blah, blah, blah,

Titanic (Kaggle)

Challenge to predict survivors based on incomplete data:

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