

STEADY SUPPLY LTD

Ben M. Corser

07933172768

ben@steady.supply

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

Statement

I am a data engineer and application developer with over 7 years professional experience. My current focus is the creation of web applications and data management systems using Unix, PostgreSQL, Python and related technology. I am an experienced programmer and have a high level of familiarity with the library ecosystems for my languages. I specialise in rapid prototyping to answer questions early, but also have a good awareness of devops concerns and am comfortable writing production-ready code. I am a friendly person with a can-do attitude and an inquiring mind. I enjoy finding solutions to difficult and unusual problems whilst writing tested, terse, readable, efficient code. I am up front and honest, but not dogmatic in my technical opinions. I write a technical blog and contribute to open source.

Skills

Programming languages

Python	Advanced	7 years
C++	Beginner	2 years
JavaScript	Advanced	9 years
SQL	Intermediate	8 years
Bash	Intermediate	7 years
NodeJS/ES6	Intermediate	3 years
Rust	Beginner	2 years
Elm	Beginner	2 years
Haskell	Learner	

Asynchronous messaging

AMQP (RabbitMQ)	Intermediate	3 years
ZeroMQ	Beginner	1 year

Container technology

Docker	Intermediate	3 years
LXC	Beginner	1 year

Operating systems

Ubuntu Linux	Advanced	9 years
Arch Linux	Intermediate	2 years
Mac OS X	Intermediate	5 years

Storage and database

PostgreSQL	Advanced	6 years
MySQL	Intermediate	6 years
MongoDB	Advanced	3 years
CouchDB	Beginner	1 year
Redis	Advanced	5 years
Memcached	Intermediate	2 years
Cassandra	Beginner	1 year

Front end web development

(X)HTML	Advanced	9 years
AJAX	Advanced	7 years
OPA/SPA	Intermediate	5 years
Angular	Intermediate	2 years
Vue.js	Advanced	2 years
Vuex	Intermediate	2 years
Webpack	Intermediate	2 years
Require.js	Advanced	5 years
Mocha, Chai	Advanced	4 years
Lodash	Advanced	5 years
Durandal	Intermediate	2 years
Elm architecture	Learner	

Back end web development

Django	Advanced	7 years
Pyramid	Advanced	5 years
Celery	Advanced	7 years
Flask	Advanced	7 years
Bottle	Intermediate	2 years
Klein	Beginner	1 year
Huey	Advanced	3 years

Data processing and machine learning

SQLAlchemy	Advanced	7 years
Alembic	Advanced	5 years
Pandas	Intermediate	6 years
Bowtie	Intermediate	2 years
Sklearn	Beginner	2 years
Hadoop	Beginner	2 years
Spark	Intermediate	1 year

Project history

September 2017 - Dept. of International Trade (2 weeks), public sector

Short project to update libraries and provide some consultancy for internal systems. See June 2017 engagement for more information.

Stack: Docker, Postgres, Redis, ElasticSearch, Jenkins, CircleCI, Python, gunicorn, SQLAlchemy, py.test

June 2017 until August 2017 - Grow Software (3 months), a 3D-printing startup

Expansion of previous project with permissions model (based on Unix permissions) and real-time "push" updates to the browser using Websockets.

Stack: JavaScript, NodeJS, RequireJS, Websockets, Karma, Mocha, CasperJS

Feb 2017 until April 2017 - Cubik Labs (3 months), data visualisation startup

Service exposing results of Spark aggregations over IOT metrology data as a web API. Replication of DSE stack for infra tests, aggregation of data residing in a Cassandra database using PySpark, synchronised with Python RQ and persisted using SQLAlchemy in a Postgres database for retrieval by the web service.

Stack: Heroku, Docker, Datastax Enterprise, PySpark, Alembic, SQLAlchemy, Python RQ, NodeJS

July 2016 until Feb 2017 - Dept. of International Trade (8 months), public sector

Simple TFIDF project for matching companies with potential overseas opportunities to demonstrate possibilities presented by machine learning. Prototype followed by production ETL and synchronisation layer to allow a Django app to use a heavily customised MS Dynamics 2011 instance as a datastore. Front end test suite written using CasperJS forming end-to-end tests of the system.

Stack: AWS, Flynn, Heroku, Docker, Postgres, Redis, ElasticSearch, Jenkins, CircleCI, Python, gunicorn, SQLAlchemy, Huey, Pyramid, Sklearn, Pandas, py.test, JavaScript, CasperJS, VueJS, Mocha

June 2016 until August 2016 - Grow Software (3 months), a 3D-printing startup

Short project to deliver a NodeJS client for MongoDB with browser component, allowing AngularJS framework users to access remote datastore. The project was unit tested with Mocha and E2E tested using CasperJS.

Stack: JavaScript, NodeJS, ES6, RequireJS, Karma, Mocha, CasperJS

Feb 2014 until June 2016 - Desktop Genetics (2 years), a bioinformatics startup

Design and implementation of data processing pipeline optimising publicly available genomic data for our application. Setting up and maintaining systems for continuous integration, configuration management, automated deployment. Low-level code and web API for genome search and scoring algorithms. Mentoring front end developers; implementing web front end allowing non-technical staff to deploy developer code to test servers for QA; genome explorer GUI allowing users to browse genomes at transcript and basepair level, with annotations and translations; implementing web API for CRUD operations; domain-specific web API (for genomic data, hence range queries, etc).

Stack: AWS, GCP, Digital Ocean, Hetzner, SaltStack, Ubuntu, PostgreSQL, Redis, nginx, uwsgi, Buildbot, C/C++, Python, SQLAlchemy, Alembic, Celery, Huey, Pyramid, AngularJS, RequireJS, KnockoutJS, Durandal, Vue.js

Feb 2012 until Feb 2014 - Rockabox (2 years), high-volume ad serving system

Overhaul of reporting system from MySQL and Django ORM to PostgreSQL and SQLAlchemy, allowing the implementation of an "expression graph" query builder GUI. I was allowed to open source some of this code: <https://github.com/bmcorser/expr>

Stack: AWS, Chef, Ubuntu, MySQL, Hadoop, Hive, PostgreSQL, Redis, Python, Pandas, Numpy, SQLAlchemy

2010 - Early projects (2 years) Reed Foundation, LOVEFiLM, Spike Island, Works Projects, Gravitywell

Various smaller projects including a web-based library loans system, an internal blogging system and a donation matching system.

Qualifications

2019 BSc Mathematics Birkbeck College, London
2009 BA Fine Arts (First Class) UWE, Bristol
2004 A-levels in Mathematics and Graphic Design

Security clearance

Security Check (SC) <https://www.gov.uk/guidance/security-vetting-and-clearance#applicant> "determines that a person's character and personal circumstances are such that they can be trusted to work in a position which involves long-term, frequent and uncontrolled access to SECRET assets"

Disclosure Scotland Standard <https://www.mygov.scot/standard-disclosure/>