

Hamish Hutchings

Previous Employment

Container Solutions Labs

Period: July 2017 - Present

- Giving training on containerisation and microservices to enterprise companies.
- Docker Essentials
- Advanced Docker
- Kubernetes Essentials
- Researching and evaluating current Docker technologies and their shortcomings.
- Developing a proof of concept within the Containerisation ecosystem.

Freelance

Period: May 2015 - May 2016

- Prototype a JavaScript library to model type-checking for formulas
- Write an accompanying library to allow for easy creation of forms with dynamic and powerful consistency checks.
- Numerous forms have been implemented using this library

FreeAgent

Period: May 2016 - September 2016

- Implemented an online supervised learning algorithm to increase classification accuracy.
- Rolled out Docker to the engineering team
- Setup AWS ECS for the project
- Setup a CI/CD pipeline for the project

Period: May 2015 - September 2015

- Agile environment
- Worked on A/B testing of certain features
- Implemented Exponential Backoff security feature for logins
- Identified a performance regression and implemented a caching solution.

MappingBook

Period: June 2014 - March 2015

- Initially worked as a frontend JavaScript (Es5) engineer refactoring and extending a legacy codebase.
- Moved to maintaining Python/Django codebase with GIS data.
- Was the primary Operations employee maintaining staging and production services.
- Use of Docker to ease deployment and management of releases.

Education

University of Edinburgh

Period: September 2013 - July 2017 Subject: Computer Science - Second Class Upper Division with Honours

- Honours Project: Instrumenting JavaScript code to check types of untyped code at runtime. Designed to generate a d.ts file to be included in a TypeScript project.
- Extreme Computing (Designing systems at 'Cloud Scale')
- Distributed/Stateless Programs
- Multi-tier caching
- Sharding and Replication
- System Design Project: Building a lego robot controlled by an arduino and coordinated python server. Designed and wrote the framework for the server, implemented the vision code. Wrote a multi-threading system with communication on a non-blocking thread and message passing to communicate.

Skills

Languages

- **JavaScript** (Expert): I have designed and implemented several complex applications ranging from websites to supporting libraries. I have worked with TypeScript, React and Angularjs on different projects and am comfortable in all of them.
- **Python** (Advanced): This is my primary language for development. The language is powerful and includes extensive libraries. I have written many API producers for services that need exposing on HTTP. I have written a mini-haskell interpreter as well as several Deep-Learning projects using Python.
- **Rust** (Beginner/Intermediate): Currently using this in my day job.
- **Java** (Beginner/Intermediate): I have written a (subset of) C to Java ByteCode compiler. I have written several other smaller projects in Java.
- **Common Lisp** (Beginner/Intermediate): I tend to write this in as a hobby, website is implemented in it.
- **Other** : Ruby, Haskell, Elm, C, Nix

Known Technologies

- git/svn
- Qemu/Docker/Rkt/Kubernetes
- CI/CD
- RDBMS/NoSQL
- Distributed Systems (Chord/DHT/Kademlia)

Other

- Familiar with Agile Development
- Pair Programming/Collaborative Programming

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