

RubyChilds

Contact

+44 7837 505462



ruby.childs1@gmail.com

Portfolio

rubychilds.com

@RubyChilds

rubychilds1

rubychilds

Skills

♥ Python

Processing

P5.js

SQL

CSS, HTML, Bootstrap

Elasticsearch

Rest API Design & Dev

Machine Learning

Photoshop, Illustrator

Basic Javascript, JQuery

Basic C++

Continuous Integration

AWS - S3,

Elasticbeanstalk

Version control -

Github/Git

Experience

- 2016 Amnesty International London, UK
Data Visualization Developer, Contract
- Collected the data and created a data visualization for a story on Middle Eastern Countries to analyse the discrepancy margins of imports the country reports with what they receive
 - Educated members of Amnesty International on modern data viz techniques for data led stories, to enable them to become data driven
- 2016 Multiple London, UK
Lead Data Scientist, Contract
- Pariti: Personal finance app that helps you save
 - Developed a real time data pipeline to process bank transactional data
 - Improved accuracy and conciseness of data through enriching and cleansed the data using Rake Extraction, SpaCy, NLTK and Stanford Core NLP
 - Made processes to differentiate between regular and one-off payments
 - Craft: A free, open information platform mapping the Innovation Economy. We provide data on dynamic sectors, companies, teams, people and open positions
 - Worked on transforming their data pipeline to improve search functionality
- 2016 Multiple London, UK
Instructional Roles, Contract
- Pivigo Data Science Hub, S2DS: Europe's largest data science training programme
 - Mentored 30 post-doc students, transferring their skills into Data Science. From translating research papers into algorithms to introductions to programming languages
 - Led and mentored teams across six industry diverse companies, implementing a range of data science solutions, such as recommenders, deep learning and natural language processors
 - General Assembly: Is a pioneer in education and career transformation, specializing in today's most in-demand skills
 - Lead instructor for the 10 week Data Analytics course
 - Guided students to use large data sets to solve a business problem, create predictions and make business decisions for improving a product
 - BlueShift: A creative coding club for children.
 - Created and taught syllabuses for children using: JavaScript, Processing, Raspberry Pi with SonicPi and Minecraft

- 2015 **6Tribes** London, UK
 Data Scientist
- Rapidly prototyped all data science projects using Python Flask and Elasticsearch. Iterated quickly based on user feedback
 - Development and deployment of Python Flask microservice providing transformed user data and recommendations
 - Optimized Facebook sign-up process with A/B tests to maximize customer onboarding
 - Enrichment of internal data using Prismatic, Alchemy, Here and Foursquare API's
 - Oversaw and developed features such as Search functionality, Data platforms, Sign-up process and User matching and Social DNA extraction
 - Created and Stored raw user JSON data in S3 and transformed data in Elasticsearch. Intensive use of Boto and Elasticsearch Python libraries
 - Created auto complete with Elasticsearch using associative words
 - Transformed textual data using Rake extraction and Word2Vec
 - Developed a data schema that ensured flexibility and adaptability for future growth of the company
- 2014 **BAE Applied Intelligence** London, UK
 Lead Data Scientist
- Worked on transforming Sky and Now TV's data into a single data platform
 - Provided documentation and understanding for all data sources, using Datameer as a Big Data tool to explore and analyse data quality
 - Regularly engaged and negotiated to land a new and existing data sources
 - Assisted in development of the Conceptual Data Model and Architectural plans for the new BI platform
 - Assisted project bid work for the implementation stage of the project
- 2013–14 **TheLadders** New York, USA
 Data Scientist
- Worked on end-to-end data science projects to create proof of concepts through to production-isation and scaling
 - Handling of regular adhoc tasks to ensure company is data driven
 - Produced recommendation system for 5 million jobseekers using logistic regression and Jaccard Similarity
 - Reduced the need for manual job classification through training a Naive Bayes algorithm
 - Extraction and coordination of huge volumes of data from external sources to enrich internal data
 - Conducted regular innovative research products to increase companies offering

Education

- 2011–12 **Masters of Computing Science, Merit** Imperial College of London
 Modules: Computer Systems, Object Oriented Design and Programming, Logic and AI Programming, Algorithms, Graphics, Machine Learning, Robotics, Ludic Computing
 Projects:
- Learning and Applying Classifiers for the Visual Arts: Working on developing the Painting Fool to have its own style and acknowledge other artists as a form of influence. Image Analysers written in Java from first principles and use of Weka for classification purposes
 - Computerised backgammon applet using Java. Involvement predominantly in UI design
- 2007–10 **Bachelors of Mathematics, First** Queen Mary, University of London
 Modules covered Probability, Statistics, Pure Maths, Financial and Calculus. Attended Summer scholarship scheme at Cambridge University as well as Summer in China
- 2006–07 **Art Foundation, Merit** CSM, University of the Arts, London
 Specialised in Surface design

Other Roles

- 2016 School for Poetic Computation Creative Technologist New York, USA
- 2016 FabLab Maker London, UK
- I have ongoing access to a maker space, acting as a resident maker
 - Projects: Transforming generative art designs into laserable objects; Worked on fitting a Bocusini food head to an Ultimaker 2 turning it into a food printer
- 2014-16 PyData and Hack&&Tell Meetup Founder and Organiser London
- Organizer of PyData, the largest Python meetup in Europe with over 3,000 members
- 2014-16 Queen Mary, University of London Alumni Mentor London
- Regularly mentor undergraduate mathematicians
- 2011-12 Hacker Recurse Center is a writers retreat for programmers. Recurse Center, New York
- Projects:
- Furthering the Painting Fool's vision abilities to include emotional awareness.
 - Sudoku Game: includes generation of board and assessment of difficulty, automatically solves boards and uses Computer Vision (OpenCV) to load newspaper sudoku images - Python.

Achievements

- 2016 40 Coolest People in UK Fintech Business Insider, World
Selected as one of the 40 most exciting people in Fintech for my work at Pariti
- 2010 XING and Flux Participant Queen Mary, University of London
National Entrepreneurial competition to build and pitch startup idea within small teams. Won initial round and continued onto final round
- 2009 Cambridge Summer Scholarship Cambridge University and Queen Mary
Scholarship to study and use facilities in Cambridge University during the summer
- 2009 Study China Shandong University China
Travelled to China to discover its cultural heritage and learn Mandarin
- 2009 Helen Maurice Award Queen Mary, University of London
Highest total score in Second Year

Talks

- 2016 PyData London Conference 2016 London
Making Recommendations without Data <https://youtu.be/7Co-p1bLTik>