Isaac Scarrott

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EDUCATION

University of Lincoln   2016-2019
BSc (Hons) Computer Science   *1st Class*

Thesis: A Comparison of Sentiment Analysis Deep Learning Methods and How They Can Be Implemented into a Web Application

Relevant Modules: Algorithms and Data Structures, Object-Oriented Programming, Algorithms For Data Mining, Parallel Computing, Software Engineering, Database Systems, and Web Authoring

Franklin College   2014-2016
Maths, Computing, Business   *B, B, C*

Tollbar Academy   2009-2014
10+ GCSE's   *A*-C*

EXPERIENCE

Bytron Aviation Systems   June 2019- Present
Junior Software Developer

- **React:** Heavily involved in rewriting portions of the skybook web app into React class and functional components from legacy Kendo UI code. This is all done while following React's best practices from the React Docs, React Courses (such as Wes Bos' Advanced React and GraphQL) and other sources.
- **Node.js:** Creating solutions to various problems using AWS EC2 instances or AWS Lambda. Largely includes integrating and processing different airlines' data with the skybook application, such as flights, fuel plans, crewing information, as well as doing some post processing and pushing data back out from the skybook application to the customer so they can get post flight data. This was done while liaising with Boeing and their customers as well as our own internal customers to ensure I create a secure and reliable solution.
- **iOS/iPad OS and Windows App:** Implementing many features into an Apache Cordova application that is used by pilots while flying aircraft's. The skybook app is deployed on the Apple App Store and the Windows Store.
- **AWS:** Using and selecting the right AWS technologies for the problem. Using S3 to store data, using a microservice architecture to create lambda functions with various triggers such as SQS and SNS. Deploying and maintaining EC2 instances with a load balancer. Creating external API's to be used by customers using AWS API gateway and arguably most importantly, staying updated on best practices and maturing AWS technologies and their use cases.
- **PHP:** For skybook's backend I used PHP with the Symfony 3 framework, learnt on the job as I had no prior knowledge of it. This has allowed me to be a full stack developer.

Kingston Restaurants Ltd (McDonalds)   2015 - 2019
Crew Member

SKILLS

- **Languages**: Javascript (ES6+), PHP (7.2)
- **Web Technologies**: HTML5, CSS3, React, Node.js, Symfony 3
- **AWS**: EC2, S3, Lambda, SQS, SNS, API Gateway
- **Database**: Orcale
- **Operating Systems**: Unix based operating systems including command line
- **Version Control**: Git, Bitbucket, Github
- **Agile Frameworks**: SCRUM and Extreme Programming

PROJECTS

@isaac.scarrott/react-type-it   [NPM Page](#)

Description: Simulate typing in a react component. Supports delay, backspace, timing and styling. Minimal dependency work in progress.

Tools: : React, Typescript, ESLint

Sentiment Analysis of Trends Within a Web Application   [GitHub Repo](#)

Description: Using a dataset of 1.6 million tweets (Sentiment140), three different deep learning models were created and trained. The model that achieved the best accuracy was developed into a web application using Python and Flask. The word embeddings were learned using a Word2Vec model I had trained using the Sentiment140 dataset.

Tools: : Python, Flask, Keras, Gensim, NLTK, NumPy, Pandas