

Aaron Sharkey

CONTACT INFORMATION

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Website: abstraqt.io

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TECHNICAL SKILLS

Programming Languages: JavaScript, Python, Java

Frameworks: AngularJS, Node, Django, Vue

Databases: MongoDB, Oracle SQL, MySQL, PostgreSQL

Continuous Integration: Kanban, Agile, Scrum, Jenkins, Git

Infrastructure: Docker, Terraform, Ansible, Chef, Kubernetes, AWS, Digital Ocean

EDUCATION

'15 – '19

Technological University Dublin (DIT), Kevin Street Lower, Dublin Ireland

Course: BSc Computer Science Infrastructure

Results: Achieved 1st Class Honours (4.0 GPA)

Notable Subjects: Systems Integration, Adv Web Mapping, Networking, Machine Learning

Certifications: CCNA 1, CCNA-RS Scaling Networks, CCNA-RS Connecting Networks

'20 – '22

University of Limerick, Kemmy Business School, Limerick, Ireland (Currently Enrolled)

Course: MSc Machine Learning for Finance

Results: Averaged 1st Class Honours thus far

Notable Subjects: Scientific Computing, Corporate Finance

EXPERIENCE

Jul 19 – Now

Rapid7 Platform Delivery, Grand Canal Dock, Dublin 2

Position Software Engineer

As a member of the Platform Delivery team at Rapid7 I am responsible for provisioning and maintaining key infrastructure used to provide our services. Currently, I am mainly working on issues surrounding InsightOps (formerly Logentries) a centralised log management solution. This entails working with AWS infrastructure through Terraform, CI / CD tools such as Jenkins and Spinnaker, Provisioning with Ansible and Chef as well as DataDog monitoring.

Technologies: Terraform, Ansible, Chef, AWS, Python, Spinnaker, Jenkins, Kong, Kubernetes, PostgreSQL and Cassandra

URL: <http://www.rapid7.com/products/insightops>

Jan 18 – sept 18 **SAP App Haus**, Citywest Business Campus, Dublin 24

Position Software Development Intern

As an intern in SAP I contributed to SAP BUILD, an open source design thinking based collaborative prototyping tool built with the MEAN stack that allows users the ability to create working prototypes using realistic data. In my time at BUILD I refactored client-side code with angular-deferred-bootstrap to make the website more efficient, introduced SinonJS into integration tests to mock out inconsistent behavior and improve test reliability. I also added smart wait functions and multiple test retries to the end to end test suite to increase pull request test reliability.

Technologies: AngularJS, NodeJS, MongoDB, Git, Gulp, Jenkins, Protractor, SinonJS

URL: <http://www.build.me/>

Jan 17 – Jan 18 **Dixons**, Terminal 2, Dublin Airport

Position Sales Advisor

As a sales Advisor in Dixons Travel, I assisted customers and handled transactions in a fast-paced sales environment, I was given monthly and weekly KPI targets to achieve and maintain. I mainly assisted customers with technical and general queries regarding computer hardware, software, tablets and mobile devices.

Nov 15 – Jan 16 **Marks & Spencer's**, Whitewater Shopping Centre, Newbridge

Nov 16 – Jan 17

Position Sales Advisor / operations

As a member of the M&S operations staff I was tasked with taking payment in exchange for sold goods, ensuring the shop floor was regularly restocked with goods, organizing and storing delivered goods, assisting customers with orders and queries.

PERSONAL PROJECTS

Final Year Project

Stockify

Is a web app and API I am currently working on for researching potential investments, performing portfolio optimisation and sentiment analysis. The app hosts information such as pricing, sentiment scores, financial filings as well as social and news feeds for over 5000 stocks trading on the NYSE and Nasdaq stock exchanges. It is built with Django, Django REST framework, Flask and PostgreSQL. It is deployed on google cloud with Docker.

Technologies: Python, JavaScript, MongoDB, Django, Flask, Django REST Framework, AWS RDS PostgreSQL, Bootstrap, Docker, Pandas, NumPy, Requests, Google Cloud SQL, Google Cloud Compute Engine

Mapping Application

Where I've Been

Is a web and phone app for tracking and displaying countries visited by users. It consists of a web app built with Django, an API built with Django Rest Framework and an IOS app built with Apache Cordova that interacts with the API. The Django web app and API were hosted on Digital Ocean and communicated with a PostgreSQL database on Amazon RDS

Technologies: Python, JavaScript, JQuery, Django, Django Rest Framework, Apache Cordova, Docker, Digital Ocean, AWS RDS PostgreSQL, GDAL, LeafletJS, Bootstrap

Aggregation & ML

SenTwit

Is an API built with Flask that allows users to collect and store StockTwit Twits for use in sentiment analysis. SenTwit provisions Google Compute Engines to pull and run Docker Containers to collect and store Twits in a remote MongoDB database. Once the Compute Engines have finished, they queue their deletion using Redis and Rq. The data is then used to train a random forest sentiment classifier for use on my Stockify web app. The process is automated with Google Cloud scheduler and the classification scores of the latest machine learning model are emailed to me.

Technologies : Flask, Python, Requests, Docker MongoDB, Google Cloud Compute Engine, Google Cloud Scheduler, Redis, Rq, Fluentd, Pandas, Scikit learn

Linux & VM

Home Lab

At home I enjoy working on my home lab setup. Currently I have a Dell r620 power edge server running Proxmox connected to my 48 port Cisco switch. I run multi vm Kubernetes clusters which host a variety of services such as my website, blog, VPN, PiHole and a Jitsi Meet video conferencing server.

Technologies : Proxmox, Kubernetes, Ubuntu, Networking

INTERESTS

Technology	I enjoy building and upgrading computers in my spare time.
Basketball	I enjoy watching and playing basketball
Investing	I enjoy reading about finance and investing

REFERENCES

Available upon request