Harry Johnson

Product Engineer at Eigen Technologies

harry]dot[johnson500]at[`gmail`]dot[com
[CV]

About

Experienced Software and Product Engineer currently working at AI scale-up Eigen Technologies⬀ . Co-leader of the MLOps team, we build data and compute pipelines to productionise research models for unstructured-data extraction.

I learned Domain Driven Design (DDD) coding against a large in-house ERP system in PHP, my background is in Python for data analytics and process automation, and I have experience managing software implementation projects in an enterprise environment.

In my spare time, I am learning Rust and practicing Data Science, with an interest in parallel processing.

Experience

- **Product Engineer**
  Eigen Technologies: 2021 - present
  Co-Leading the ML-Infrastructure team: I am responsible for working with Data Science, Product Management, and the ML-Infrastructure team to productionise our machine learning capabilities. I manage the migration of our legacy embedded ML infrastructure to a Kubernetes-first microservice configuration, as well as the implementation of new features. I lead design sessions, co-ordinate with stakeholders, manage timelines, and contribute to implementation. I prioritise scalability, modularity, extensibility, and lowering the long-term maintenance burden with rigorous attention to software interfaces and data contracts.
  Before co-leading ML-Infrastructure: Contributed to design and implementation of a microservice-oriented DDD refactoring of critical project models, collaborated developing an async client for remote system testing, tools for system observability on client deployments, and various reporting features.

  - AWS (EC2, S3, ELK)
  - Azure
  - Dagster
  - MLFlow
  - BentoML
  - Kubernetes
  - Helm
  - Docker (+Compose)
  - Python 3
  - PostgreSQL
  - Redis
  - Celery
  - Microservice Architecture
  - React

- **Software Engineer**

Gigabyte Software: 2018 - 2021
Full-stack development - I was responsible for liaising with clients to collate requirements, designing and implementing new functionality in our proprietary ERP system, while also maintaining the existing codebase. On occasion, I was responsible for resolving infrastructure issues. I managed and worked on the Barclays Bank integration project, liaising with Barclays and our client, and planning and executing the design-implementation-test cycle. I designed and implemented (with the team) a supplier management module, and a postal mail integration with ClickSend, among others.

- PHP (5.6, 7.4), Symfony, Doctrine,
- MySQL
- Ubuntu Server
- Redis
- Beanstalk
- DDD
- React (+Redux, +Saga)
- Heroku
- AWS S3
- AWS CloudFront

- **Competitive Intelligence Analyst, Product Strategy**
  Finastra, London: 2016 - 2018
  I managed the implementation of a 3rd party innovation application, and designed and designed and managed the implementation of a custom post-deal survey component in the company Salesforce instance. I used pandas and the PyData stack to produce quarterly reports for the C-Level. I built a Flask web application to hold my current work-state, and generate reports for my manager. I used the Python web-scraping tools to collect data on competitors, and pandas and PyData to combine it with deal information to produce heatmaps for regional sales targeting.

  - Python (2, 3)
  - Flask
  - pandas, numpy, Plotly, Bokeh
  - pptx
  - Salesforce API

- **Business Intelligence Analyst, Sales Operations**
  Misys (now Finastra), London: 2014 - 2016
  Working in Sales Operations, I identified multiple manual processes available for automation. I automated various operational and reporting processes I was tasked with, including the Global Deal Review, using the Python Win32COM APIs, MS Office Python packages, Salesforce integration, pandas, and a variety of visualisation tools.

  - Python (2)
  - pandas, numpy, Plotly
  - Salesforce API
  - pywin32

- [Please see my LinkedIn⬏ for further employment history]

Expertise in Technologies and Methodologies

- Domain Driven Design

- Software and Data Architecture

- Agile

- Microservice Architecture

- **Python**
  - Dagster

- BentoML
- SKLearn
- HuggingFace
- Django
- Flask
- Pandas (+ PyData ecosystem)
- Wagtail CMS
- Django Rest Framework
- Scrapy (BeautifulSoup, Pattern, nltk)
- Celery

- **Devops**
  - Docker
  - Vagrant
  - Ansible
  - Kubernetes

- **Cloud Providers**
  - AWS
  - Azure

- **SQL**
  - MySQL
  - PostgreSQL

- **NoSQL**
  - MongoDB

- **PHP**
  - Symfony
  - Doctrine

- **Javascript**
  - VanillaJS
  - ES6
  - React (+Redux, +Saga)

- **Linux Server Administration**
  - Bash/Shell Scripting
  - Apache Web Server
  - Logging

Education

- **University of Edinburgh**
  2009 - 2013
- **Mander Portman Woodward College**
  2007 - 2008
- **Eton College**
  2003 - 2007