



# Henry Course

SE5, London, UK

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## SUMMARY

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I am a driven software engineer and machine learning graduate with experience across the stack at a team lead level. I have designed and built scalable, highly available distributed systems and have lead effective teams in top startups. Excellent computer science fundamentals and Python skills complement my practical machine learning experience which includes a focus on deep learning. In addition to my technical skills I have a solid background in economics and read widely. I am a confident writer and enjoy communicating and advocating my ideas to others.

## EDUCATION

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**University College London - Machine Learning Msc, Merit** *October 2016 - September 2017*  
72% overall. Summer dissertation undertaken with Rightmove titled: *A Machine Learning Approach to Residential Property Value Forecasting Using Images.*

**University of Oxford - Philosophy, Politics and Economics BA, 2:1** *October 2010 - June 2013*  
Sat papers in economics and international relations for final exams. 1<sup>st</sup> class marks in 3 papers.

**Bishop Luffa School - A Level/AS/GCSE** *September 2003 - July 2010*  
Mathematics, physics and economics A Levels at grade A. History AS grade A. 10 GCSEs, 5As and 5A\*s.

## EMPLOYMENT

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**Flux ([tryflux.com](http://tryflux.com)) - Engineering Team Lead, previously Engineer** *July 2018 - October 2020*  
As an engineer in a small but growing team I worked on a distributed system (mainly in Kotlin) that processes real time retail transaction data. During my time there I was promoted to lead the retail team as we scaled from  $\approx 20k$  to over two million receipts delivered. When I wasn't working on bringing Flux to the biggest retailers in the world, I was working on engineering hiring and promoting technical excellence as part of company culture.

**Buzzmove - Backend Developer** *June 2016 - May 2018*  
I worked with the CTO to in-house the stack, modernize the codebase and automate the deployment and development processes. As the tech lead for a major product I had overall responsibility for development, and when the CTO departed I stepped in to manage the wider team.

**Freelance Software Consultant** *May 2017 - Present*  
Contracts have included working with an IoT startup to provide greenfield design and hiring guidance, and more recently I have volunteered as a technical supporter at a local Code Club.

**BCSG - Java Developer** *January 2015 - June 2016*  
I was involved from design to delivery of SaaS reselling platforms, working mainly on the backend. I was promoted to a mid-level position after 12 months.

**Amazon UK - Contract Data Analyst** *July 2013 - December 2013*  
Attached to the UK fashion team, I went beyond the job description to automate data-intensive and repetitive tasks. A tool that I built accelerated a data categorisation task by a factor of 10.

## TECHNICAL SKILL HIGHLIGHTS

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<b>Languages</b>	Kotlin (JVM), Java, Javascript, Python, Terraform
<b>Frameworks</b>	Ktor, Spring Boot, React, Redux, NumPy, Tensorflow
<b>Databases</b>	SQL (primarily PostgreSQL & MariaDB), DynamoDB
<b>Tools</b>	AWS (IAM, SQS, EC2, RDS, SNS, S3, $\lambda$ , etc.), Kubernetes, Bash