

Education

2012-2017	Bachelor of Science in Computer Science Brunel University , London	Award: Second Upper Class (2:1)
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Technical Skills

Programming	Intermediate: C#, Java, MATLAB Novice: Javascript, Kotlin Basic: Python
Libraries / Frameworks	Node.js, ReactJS, AngularJS, DropWizard, Maven, JUnit, TestNG, Service Fabric, Castle Windsor, ASP.NET, SpecFlow, NUnit
Databases	CosmosDB, SQL Server
Systems / Platforms	Git, Azure, Docker

Work Experience

Current - Jun '18	Associate QA Engineer - ASOS Enki Fashionbot - Implementing new features to improve the user experience on a Azure hosted C# Facebook Chatbot. - Undertaking tech debt to split the solution apart to help reduce build times - Added PDB file deployments to symbol servers in order to allow stepping over NuGet DLLs - Added stored procedure which is run on every deployment to clean up CosmosDB of any test-user entries - Introduced brand mapping functionality so end-users could specify specific brands within their searches, thus allowing users to see what they actually want to see - Introduced a pagination functionality within the chatbot responses to allow users to access more results from the ASOS catalogue - Frequent attendee of ASOS' internal "Next Gen Compute" courses which cover new technology stacks to improve my skills and knowledge - Attend twice-weekly code craftsmanship classes run by my Lead Developer in order to make the transfer over to Software Developer - Completely refactored existing test suite left behind by prior Senior QA to make it more robust and mapped according to the Testing Pyramid. Resulted in reduced deployment times of around 40% and a less "flaky" test suite	ASOS PLC
June '18 Dec '17	Associate Software Engineer - Information Classifier - Implemented new features on a Java microservice for data discovery and visualisation. An NLP solution implementing Stanford NLP, using a TDD and BDD approach to development - Helped implement extraction of text from uploaded documents and images using Tesseract OCR, allowing data to be easily scanned for compliance and GDPR requirements - Created an internal performance monitoring dashboard using Chart.js to monitor any degradation in the classification engine - Writing unit, integration, and UI tests using Mockito, TestNG, and Protractor for the End-to-End tests - Took on QA responsibilities (as we had no QA on the team) and trained other members of the team on the importance of the testing pyramid, and completely overhauled the automated test suite, whilst also refactoring the existing code to make it more unit testable and SOLID - Configured and remastered build & release pipelines with CI/CD using Maven, Jenkins and JIRA	Veritas LLC
Dec '17 Jun '17	QA Engineer - Enterprise Vault - Actively attended training courses, code katas, and pair-programmed with senior developers to home developer skills - Paired with Principal Developer on feature which allowed archiving SMTP messages	
Jul '16 Jun '15	Performance Engineer Intern - Enterprise Vault - Developed tool written in WPF and C# in order to perform monitoring and alerting of MSMQ statuses - Undertook benchmark and regression testing to ensure software quality and stability with third party software packages - Managed a large-scale performance and scalability environment, providing fortnightly reports for the leadership team on the current state of the software - Ran performance testing against third party storage devices and providing reports to determine whether the hardware met set specifications	

Projects

Artificial Neural Network for Intrusion Detection

Final year project to develop a Neural Network for aid in intrusion detection.

Lyrics generator using neural networks Wrote a lyrics generator using TensorFlow that generates a new song in an artist's style. A Long Short Term Memory (LSTM) Neural Network learns the artists' styles of writing including words, rhymes, chorus patterns, etc. for the task.

Selene Built a social music-recommendation Android app based on YouTube that analyzes usage data from friends and nearby users and recommends the most popular tracks.

Retrieving salient sentences from Reddit AMAs Built a summariser that provides summaries from /r/iAMA clustered by topics, using k-mean clustering and Alchemy API.

Hackathons & Competitions

Mar 17	MetaKGP Dashboard - Won bronze medal for building a NUS-Mods style dashboard with various utilities created for students of my college. The dashboard was built with a NodeJS backend and had several utilities including smart timetable, news aggregator, question paper portal and professor finder to name a few.	Inter-IIT Tech Meet '17
Dec 16	Stol (SMS to Internet) - Made an android application for basic internet access like Google Maps navigation, Duckduckgo quick search, Zomato reviews, etc. without a data connection. Communication with the server was done using Twilio's SMS APIs.	Pragyan Hackathon '17
Apr 16	Data Extractor for 2D plots - Built a graph extractor that detects multi-variable graphs in any given PDF and tabulates them autonomously taking into consideration features like axis values, scales and legends.	OpenSoft '16