

Ryan Smith

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Personal Statement

I am a versatile and dedicated Software Engineer with over 5 years of experience who always aims to improve code and ensure changes are done the right way. I am able to effectively work independently or collaborate within a team. I have a strong desire to expand my knowledge by learning new languages and technologies whilst keeping up with current trends. I am particularly interested in developing cloud knowledge across different platforms (AWS, Azure and GCP). Now searching for my next challenging and rewarding opportunity to contribute within a successful team.

Professional Experience

May 2022 – Present: Senior Full Stack Engineer – Capgemini Invent

TypeScript, Python, Terraform, Azure, NoSQL, SQL, Node, Jest, React, SCSS, HTML, Databricks, Redis

During my time at Capgemini I have been the tech lead for two different projects. The first project, we built the solution from the ground up. We utilised ETL pipelines to process files uploaded by the user and presented the results to them via a custom built UI written with TypeScript and React. The second project involved quite a lot of DevOps work, where I was responsible for deploying resources to Azure and setting up pipelines for development. We replaced the existing data portal with enhanced features and used more recent technologies such as React and Azure Functions (Serverless). Outside of project work I have taken on the role of L&D lead to ensure that everyone is able to develop their skills in the areas they are interested in as well as areas that the business require. I am also leading the development of an internal project which could be an additional business offering for Capgemini. I am actively involved in the recruitment process where I analyse CVs and interview candidates.

- Lead the development team for 2 streams of development (Frontend and Backend)
- Optimised and improved existing Python ETL pipelines which ran in Databricks.
- Implemented translations from scratch allowing support for EN and DE.
- Introduced and enforced various development standards and improvements.
- Setup deployment pipelines (CI/CD) and deployed resources to Azure.
- Introduced analytics which allowed prioritisation of new features.
- Ensured tests and coverage was always above 80%.
- Enhanced and integrated with existing .Net microservices.
- Integrated with various services such as Redis, MS SQL and Logic Apps.
- Constructed an extensive translation layer to convert data into the desired format.

August 2019 – May 2022: Software Engineer – BJSS

PHP, JavaScript, TypeScript, Docker, Terraform, AWS, Azure, Jenkins, Travis, GraphQL, Angular, SQL, Composer, Selenium, PHPUnit, Node, Jest, Java, Grunt, Vagrant, Bash, LESS, HTML, CSS, Drupal, Commercetools, Symfony

As a software engineer I contributed across the entire legacy codebase, working with the client I added new features, fixed bugs whilst always improving the quality of the existing code. I later switched teams where my role was to re-write the backend of the website using Azure, an event driven architecture and CI/CD. I was an integral part of our team, we were the only ones on track to meet our deadlines.

Finally, I swapped teams again to focus on keeping the legacy platform secure and prolong its life for as long as possible. This was necessary as the whole re-write was taking longer than originally planned.

- Merged over 10 Symfony containers to create a monolithic architecture, this made the legacy system easier to support and maintain.
- Ran show and tells to demonstrate new features to the client, updating them on the current progress.
- Supported new starters, and shared knowledge with other teams.
- Decreased build times by 30% by refactoring the pipeline.
- Constructed a reusable listings page widget, now used on hundreds of pages.
- Defined infrastructure as code for Azure and Commercetools using Terraform.
- Modified the automation test pipeline to fetch keys, credentials and variables from key vault or the automation account in Azure. This allowed the pipeline to run without any manual intervention.
- Integrated with various APIs such as ForgeRock and Commercetools.
- Implemented 5+ function apps to modify the state of downstream systems.
- Utilised unit, component, contract (Pact) and integration tests to ensure the function apps behaved as expected.
- Agile development utilising Scrum and Kanban.
- Frequently ran stand-ups and retrospectives.
- Provided on-call support for out of hours issues.

July 2018 – August 2018: Cyber Security Intern – University of York

July 2016 – July 2017: Software Engineer Intern – Sophos

Other Experience

November 2014 – March 2016: Student Interview Day Ambassador – University of York

May 2012 – August 2014: Shop Assistant – Notcutts Garden Centre, Cafe

Certifications

- AWS Cloud Practitioner
- Azure Fundamentals

Education

2014-2019: MEng Computer Science with a year in industry (1st) - University of York

2007-2014: Farlingaye High School, Suffolk

- A Levels: Maths (A), ICT (A), Chemistry (B), Physics (B)
- GCSEs: 10 GCSE passes: 2A*'s, 6A's, 1B, 1C