



JOSEPH MCGRATH

SOFTWARE DEVELOPER &
ENGINEERING GRADUATE

PERSONAL STATEMENT

Team-oriented developer looking to work with innovative and creative companies. I'm passionate about technology, creativity, and bringing the best out in those that I'm around. I want to work with a team which believes in the work they are doing, supports and encourages one another and is continually innovating and improving what they do.

KEY SKILLS

React | JS | HTML | CSS/SASS | Firebase |
MongoDB | Agile Working | Data Analysis |
Problem Solving | Critical Thinking | Project
Management | Time Management

INFO

JOEMCGRATH.DEV
Portfolio

NORTHAMPTONSHIRE, NN6
Address

GITHUB.COM/JDMCGRATH
GitHub

DEVELOPMENT EXPERIENCE

_NOLOGY

SEPT 2020 – PRESENT

Junior Software Developer

_nology is 12-week intensive Software Development course with an industry focus. The course was primarily centred on React and JavaScript. It tackled teaching both technical coding and practical workplace skills such as testing, pair programming, and backlog creation. For five weeks of the course I was part of a 10-strong group of developers working on a real-world project for a US based client using agile workflow: Dada, a react-based web-app website for new fathers to learn the basics of parenthood. The project used Firebase, BaaS for authentication and pulling and storing user data from a database.

- Worked as Designated Project Manager for a sprint: responsible for maintaining communication with the PO, assigning and tracking deliverables with ticket owners, managing client expectations, and conducting daily scrums and retrospectives.
- Responsible (in a pair) for setting up the continuous integration and continuous deployment pipeline for the client project.
- Presented a walkthrough of the Firebase backend to the client during the product delivery.

In addition to the course-related client projects, I also worked on some personal projects:

- Produced a portfolio containing personal projects to demonstrate understanding of concepts learned throughout the course.
- Built a Beer menu with search and filter functionality using React & querying BrewDog API to strengthen understanding of API.
- Developed an API using node.js which will communicate on localhost.
- Developed a Morse-code translator (both ways) using JavaScript, HTML, CSS.
- Coded a basic calculator using JS, HTML, CSS.

Key skills:

Languages / Frameworks: React | HTML | CSS/SASS | JavaScript | TypeScript | REST APIs | Unit testing (Jest & Enzyme) | OOP | Bootstrap

Tooling: NPM/Yarn | Postman | Git | Bash

Back-end development: Firebase (Authorization, Storage, Database, Hosting) | Node.js | MongoDB | Express

Core skills: AGILE Management, Project Management, Pair Programming & Collaborations, Remote Work, Public Speaking, use of Trello and Figma.

UNIVERSITY EDUCATION

COVENTRY UNIVERSITY

SEPT 2016 – APRIL 2020

BEng Mechanical Engineering (Hons)
First Class (1st)

As part of my final year at university, I had the opportunity to write a thesis titled "Developing the Electric Charging Infrastructure in the UK to enable nationwide mass-charging by 2029". The project required research to be completed in multiple sectors in order to gain data for deep market analysis. The thesis was completed to a first-class standard, and I was asked to publish the thesis due to its unique content and new data collected during interviews from business in the industry.

As part of the Mechanical Product Innovation module, a year-long group project was undertaken to design a luggage storage space in a small electric vehicle. This project required the team to follow the full design process from idea generation to final product. As team leader, it was my job to lead the team through the process by guiding meetings and delegating work as well as taking part in project deliverables. Overall, the project required good presentation and communication skills as well as the ability to undertake market research and use engineering tools such as CAD to develop a final design. This project was completed to a first-class standard.

Key skills: *Data Analysis | Rapid Learning | Presentation skills | Writing Skills | Time management | Teamwork | Research*

EMPLOYMENT HISTORY

References available upon request

AIRBUS UK | ATA 32 LANDING GEAR INTERN

JUL 2018 – JUL 2019

Liaising closely with internal design and development teams, I was responsible for all deliverables associated with the certification of the Landing Gear of the BelugaXL aircraft. Part of my role was the management of an action tracker as well as presenting weekly meetings with certification document authors to ensure everything was running smoothly.

As well as working within a project management role, I gained a huge amount of experience in working as part of a team with the task of authoring documents for the following:

- Testing on the Landing Gear of new aircraft designs
- Certification of new weight variants of aircraft
- Research and testing on the capability of current aircraft
- Procedures for maintenance and turnaround of an Aircraft in ambient temperatures of down to -54°C

Key Skills: *Project Management* | *Presentation Skills* | *Data Analysis* | *Attention to Detail* | *Decision Making* | *HTML/CSS* | *Document Writing* | *MS Office*

JPMG ELECTRICAL | ASSISTANT

MAY 2017 – SEP 2017

After my first year of study at university, I worked for an electrical engineering company, this work was based in Amazon Distribution Centres working mainly as a labourer, I did however, learn quite a lot about electrical systems and working as part of a team, I also spent some time with the mechanical engineering team examining conveyors and discussing how they could be optimised. Working up and down the country for five days a week over several months was a good experience of a real work environment and working away from home.

Key Skills: *Teamwork* | *Electrical Systems* | *Excel Spreadsheets* | *Data Collection and Entry*

BEDFORDSHIRE CLEANING | TEAM LEADER

SUMMERS OF AUG 2014 – SEP 2016

Quickly advanced from cleaning university rooms to leading a team of over 15 workers. I was responsible for keeping the team working efficiently and ensuring work was completed to a high standard.

Key Skills: *Leadership* | *Organisation* | *Teamwork*

EARLY EDUCATION

LAWRENCE SHERIFF SCHOOL

2014 – 2016

A-Levels - Maths (B) / Physics (B) / Accounting (B)

QUINTON HOUSE SCHOOL

2009 – 2014

GCSEs - 12 GCSEs A* - C

HOBBIES



In my spare time, I love to play computer games with my friends, even entering (and winning) tournaments.

I love to listen to Podcasts, Music, and Audiobooks anytime I can - Learning about new cultures, technologies and Stories is incredibly rewarding and is a fantastic talking point to talk about with friends and family.