James Macmillan

⬜ Cover Letter

Availability
Immediate

Seeking
Full time, remote roles in the UK.

Hey, I'm James, a Senior Software Engineer based in The Midlands. Thanks for taking the time to check out my CV.

I am currently looking for full-time, remote roles as a Senior Developer.

I have over 10 years commercial web development experience, and over 5 years commercial cross platform mobile development experience.

My ideal stack is Node.js or .net core on the back end, with React & Tailwind on the front. But, I have significant experience in a variety of Front End and Server Side technologies.

I started web development at 12 years old. My core web skills developed at the same time as the web, and when the web went mobile, so did I.

I'd make a great addition to any dev team, my strengths are in full stack development and design in the javascript ecosystem. I've worked with a variety of different team structures, processes and tech.

This CV was written with ❤ in the Midlands, Using (◤ Vite), (⚛ React), (≈ Tailwind) & others.

James Macmillan

Profile

Agile, Full Stack Developer with team leadership, presentation, design, UX/UI, and application architectural experience.

Passionate and articulate, with proven knowledge in all aspects of Hybrid Mobile and Progressive Web app development.

Experienced in developing mobile and web applications across the extended full-stack, with teams of developers at varying levels of experience.

A strong love of technology, solving complex business problems with a team of like-minded people.

📖 Experience

Engineius   Jul '20 - Feb '23

Ⓣ Typescript   .net core   Ⓐ Angular   Ⓝ Nativescript

Overhauling, updating, and improving Mobile and Web apps.

I was tasked with overhauling the Engineius mobile app, while transitioning its development in house. I significantly improved the performance, UX/UI, stability and maintainability of the app. I also worked to significantly improve the architecture and performance of the company's main web app.

I delivered multiple business derived projects working closely with the end users involved. I also lead and mentored new employees on the mobile app's development.

Packt   Nov '17 - Jan '20

Ⓝ Node.js   AWS   ⊟ Serverless   Ⓐ Angular   Cordova

Shipping the mobile app for the Subscription platform and going Serverless.

I worked with Packt for 2 years on the Subscription platform. I was initially hired to expand the web application into a cross platform mobile app. I was also instrumental in migrating the API to use the Serverless framework on AWS. I worked with a team of developers with varying skill sets, helping to upskill and train new members of the team.

My development career became very focussed on Javascript stacks, writing brilliant code to solve complex solutions on a variety of platforms. During my time with Packt I endeavoured to improve code quality across the stack, helping develop and implement the code style used in house.

Severn Trent   Sep '12 - Oct '17

∿ .Net   SQL Server   Cordova   Ⓐ Angular   AWS

Delivering web and mobile apps to drive the business forward.

I worked with Severn Trent PLC for 5 years developing a multitude of software solutions deployed to a wide variety of platforms.

Later in the role my forté was developing brilliant PWAs and Hybrid Mobile apps for use throughout the company. During my time with Severn Trent I developed solid, maintainable applications in the correct technology for the solution.

I worked with an ever changing tech stack to improve speed of delivery, starting with a Java & Spring backend, moving through .Net and landing on Node.js All the time improving my core skills in Design, Prototyping, Testing, Computer Law, Security, and implementing best practice. I jumped at the opportunity to lead my team, train our new starters, and suggest the ideal solution to complex software problems.

Stacks

My Ideal working stack is Node.js on Lambdas, or in Containers. With a modern RDS & Object Store. On the front end I like working in React or another component-based flux framework, with Tailwind and a decent bundler. On mobile I like Ionic but I'm currently transitioning to React Native.

In the recent past I've worked on more traditional stacks, deploying Node & .net core APIs to AWS on containers, EC2 instances as well as lambdas. I've also worked with multiple static site and SSR deployment patterns. My last few roles have used Angular heavily so I've got tonnes of Angular experience.
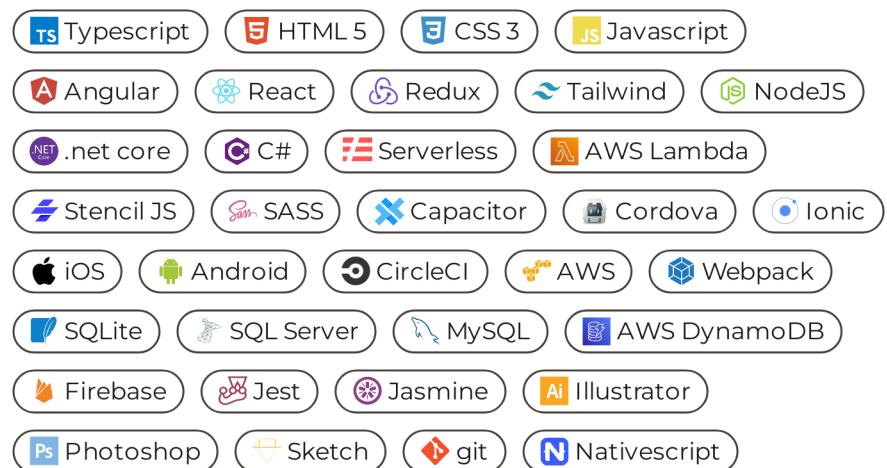
Interests

I'm a keen photographer, avid reader, and Cyclist. I find my interests changing over time but the main few stay the same.

When I'm not working, I like to continuously learn. In the last few years I've taken up Game Programming, Machine Learning, and Data Science. I find that learning new paradigms and languages keeps me sharp.

🏅 Skills

Below you will find a summary of some of the key technologies and tooling that I have experience with. If you would like to know if I've used a particular technology that's not listed, please get in touch.

Over the last decade I've picked up a wealth of experience in web and mobile application development. This has lead to lots of experience with UX/UI Design, Unit Testing, CI/CD, Software Architecture, DBMS, Performance Optimisation, and more.

Throughout my career I have mentored and lead other developers of varying skill levels. I've worked in a variety of teams with a variety of processes, and I'm most comfortable with Agile methodologies.

- Typescript
- HTML 5
- CSS 3
- Javascript
- Angular
- React
- Redux
- Tailwind
- NodeJS
- .net core
- C#
- Serverless
- AWS Lambda
- Stencil JS
- SASS
- Capacitor
- Cordova
- Ionic
- iOS
- Android
- CircleCI
- AWS
- Webpack
- SQLite
- SQL Server
- MySQL
- AWS DynamoDB
- Firebase
- Jest
- Jasmine
- Illustrator
- Photoshop
- Sketch
- git
- Nativescript

🎓 Education

Coventry University
Jan '09 - Jan '12

BSc Computer Science *G400, 2.1 with Honors*

Caroline Chisholm School
Jan '02 - Jan '09

3 A Levels *Including Computing*
11 GCSEs

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2021 Portal Architecture   Engineius

[TS Typescript] [.net core] [A Angular]

Updated the Web Portal's architecture to split front end and api.

The customer facing web portal was serving via. an old Angular .net core template's architecture. Each client route returned an angular app as a page.

In this project I extracted the front end Angular apps into their own project, bootstrapped webpack and switched all routing to the angular front end. This involved overhauling routing, the webpack build, and the angular project as a whole.

As a part of this project I also identified that the vendor bundle had been misconfigured, serving node_module dependencies twice. Fixing this, implementing Lazy Loaded routing and separating the front end server from the back-end server resulted in significant performance improvements.

This also had a significant impact on development turnover, prior to these changes the rebuild cycle was well over a minute on most developer's machines.

2020 Mobile App   Engineius

Bringing a third party development in house

Engineius originally outsourced their app development as is common in early startup phase. This project involved bringing the functioning production app development in house and up to a long term maintainable standard.

My initial work here was to take stock, and roughly plan the necessary changes to ensure long term maintenance. There was also a looming deadline of an iOS upgrade deprecating the old Web View.

I started by implementing some node best practices; dependency pinning, auto formatting & linting with CI layer build checks. I then upgraded the underlying frameworks to their latest stable versions, this included bringing Nativecsript to v7+ and Angular to 12+. As these were significant major version releases there was lots of in depth analysis and retest work along with the development.

Once this work was complete and functioning I then focused on outstanding production app issues. In particular there were multiple memory leaks, performance drags and the app's styling had not been completed or branded.