

Raphael Guionaud

Website: raphaelg.tech

Email: raphael.guionaud@outlook.com
Mobile: (+44) 7771624965

Github: github.com/raphaelguionaud
Linkedin: [linkedin.com/in/raphael-guionaud-70b595232](https://www.linkedin.com/in/raphael-guionaud-70b595232)

Education

Cardiff, UK	Cardiff University	Sep 2016 - Jul 2021
<ul style="list-style-type: none">BSc in Theoretical Physics		

Employment

Software Engineer	RICOH	May 2022 - Present
--------------------------	--------------	---------------------------

Birmingham, UK

- Worked on the Spaces app as a full-stack engineer, implementing many full-stack features from back to front, with a UI and backend that matched design specifications in terms of functionality and appearance.
- Helped implement a new API using a federated architecture, with microservices written in Typescript that communicate via RPC. The query language used was GraphQL and NestJS was used as a framework.
- Created a number of microservices communicating with MongoDB collections to handle business logic, fleshing out the backend and providing key functionality to the UI. I also wrote unit tests for the microservices using Jest.
- Improved the FieldMask being applied on document updates to be able to handle updates for more complex types, improving scalability and flexibility.
- Implemented a router guard in the frontend, which was built with AngularJS, to limit the access of users based on their admin privileges.
- Used Jira and Kanban within an Agile production environment to address bugs, features and prioritise work for iterative development within a CI/CD pipeline.

Technical Skills

- Programming Languages: Javascript/HTML/CSS, Typescript, Python, C#, Bash
- Frameworks and Libraries: Node.js, Express.js, NestJS, AngularJS, React
- Tools: Git, Docker, Kubernetes, GraphQL, Apollo, MongoDB, Firebase

Projects

- Microservices-app** (github.com/raphaelguionaud/microservices-app) A backend with a microservice architecture implementing a custom events-service to manage data synchronisation between services and loss of data from service downtime. The emphasis however is on creating a streamlined development/deployment environment for CI/CD by making use of Kubernetes and Scaffold.
- Resume-app** (github.com/raphaelguionaud/resume-app) A tiny Angular app deployed with Heroku to act as an online resume. It communicates with a Node server I wrote, also hosted on Heroku that handles sending emails using nodemailer.