

# Paulo Santos

/paulo-santos-software-engineer

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A Lead Full-Stack Software Engineer with experience in web technologies and the e-commerce domain.

## EDUCATION

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- **University of Liverpool** Liverpool, UK  
*Master of Engineering in Computer Science (MEng); 1:1 (1st Class)* *Sep. 2016 – Sep. 2020*

## EXPERIENCE

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- **THG** Manchester, UK  
*Lead Software Engineer* *Apr. 2022 - Present*
  - Achieved the role of team lead for an internal framework project used to quickly build and deploy modular multi-front-end applications (micro-frontends). This framework was used to support a new generation Content Management System, a SaaS CRM system, and a recruitment portal.
  - Worked out-of-hours time schedules to act as the first line of response for live system failures that supported dozens of e-commerce sites.
  - Conducted graduate and mid-level technical software engineer interviews for new company talent.
- Software Engineer* *Sep. 2020 - Apr. 2022*
  - Developed custom Shell scripts, Gradle plugins and Java modules drastically simplifying and speeding the build processes for multi UI and Gradle projects.
  - Designed, implemented and maintained RESTful APIs to fetch and manipulate product and site information displayed on live e-commerce THG hosted sites.
  - Built and took responsibility over a large Angular multi-component library that has been used to build a handful of internal and external UIs as well as writing technical documentation to support it.
  - Developed a number of internal Angular UIs providing Content Management features including: search redirecting, page navigation, CDN content uploading, video content management, and more. These UIs are used both internally, by developers, and externally, by traders, to manage site content.
- **Primavera Software Solutions** Braga, Portugal  
*Intern Software Engineer* *Summer 2016*
  - Worked in an Agile environment learning how to plan, design and launch software projects by shadowing and assisting experienced professionals.
  - Wrote and reviewed BAU SQL transactions on internal databases; analysed and improved existing database schema for internal user accounts resulting in a positive change in developer productivity.

## PROJECTS

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- **Visual Automata:** An in-browser tool to visualise and transform classical automaton. Built with Vanilla JS.
- **Classification of Bio-fuels using Machine Learning:** Analysis of various Machine Learning classification techniques applied to images to the identification of bio-fuel materials. Developed with Keras & Tensorflow.
- **DSA Visualiser:** A data structures and algorithms simulation and visualisation. Built with Electron.js.
- **Relational Algebra and SQL Optimiser:** A tool to visualise, convert and optimise RA and SQL queries. Built with a custom parser written in BNF and the Neutronium .NET framework.

## DOMAIN SKILLS

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- **Languages:** JavaScript, TypeScript, HTML&CSS, Java, Groovy, Python, Lua, SQL, T-SQL, Shell
- **Technologies:** Angular, React, ElectronJS, NodeJS, Express, K8s, Docker, ActiveMQ, Kibana, BiqQuery, JUnit, Jetty, Tomcat, Spring, MySQL, NPM, Maven, Gradle, Jenkins, GitlabCI, Linux, Firebase