

# Pablo Garcia Rius

## Software engineer

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### WORK EXPERIENCE

<b>Data engineer intern</b>	<b>Madrid, Spain</b>
<i>TK Elevators</i>	<i>June 2024 – December 2024</i>
<ul style="list-style-type: none"><li>Designed and deployed custom KPIs to monitor IT system usability, leveraging Power BI to visualize trends and <b>optimize workflow efficiency</b>, resulting in a 20% reduction in internal tool-related bottlenecks.</li><li>Engineered an automated Python pipeline to extract and transform incident data from APIs, <b>enhancing data accuracy</b> and enabling real-time safety dashboards for risk assessment, which reduced reporting delays by 50%.</li><li>Collaborated with cross-cultural teams (Germany, Brazil, Spain) to document internal processes, <b>improving onboarding efficiency</b> and standardizing incident reporting procedures across global offices.</li></ul>	
<b>Software engineer intern</b>	<b>Madrid, Spain</b>
<i>NTT Data</i>	<i>September 2023 – May 2024</i>
<ul style="list-style-type: none"><li><b>Led</b> a full-stack digital twin project using Azure IoT, Node.js, and React, <b>integrating real-time sensor data</b> from robotic systems to enable live performance monitoring in a client showroom.</li><li>Spearheaded the frontend development of Renfe's station management app with React/TypeScript, <b>implementing dynamic visualizations</b> for crowd flow and equipment status, reducing safety incident response time by 30%.</li><li><b>Optimized</b> CI/CD workflows using GitHub Actions, <b>automating testing and deployment</b> for SaaS products, which cut release cycles by half and minimized manual errors.</li></ul>	

### VOLUNTEER EXPERIENCE

<b>Independent IT Tutor</b>	<b>London, UK</b>
<i>Self-Initiated</i>	<i>January 2025 – Present</i>
<ul style="list-style-type: none"><li>Tailored one-on-one lessons for a senior client, simplifying complex IT concepts (email security, app usage, device troubleshooting) to improve her digital independence and confidence.</li><li><b>Diagnosed and resolved</b> recurring technical issues (e.g., malware removal, Wi-Fi setup), reducing her reliance on external support by 80% through structured troubleshooting guides.</li></ul>	

### EDUCATION

<b>MSc Software engineering with management</b>	<b>London, United Kingdom</b>
<i>Kingston University</i>	<i>Graduated January 2026</i>
<ul style="list-style-type: none"><li>Mastered Agile frameworks (Scrum, Kanban) and PRINCE2 by leading a self-directed project—a social network for seniors—from initiation to prototyping, aligning stakeholder requirements with iterative development.</li><li>Developed a T3 stack (Next.js, TypeScript, MongoDB) medical booking app with a focus on <b>scalability and accessibility</b>, including a comprehensive <b>software quality</b> plan for ISO compliance</li></ul>	
<b>BSc Computer science engineering</b>	<b>Madrid, Spain</b>
<i>Universidad Carlos III</i>	<i>Graduated June 2024</i>
<ul style="list-style-type: none"><li>Specialized in algorithm optimization and distributed systems, applying <b>heuristic models</b> to solve real-world problems in coursework like cryptography and cybersecurity engineering.</li></ul>	
<b>Undergrad exchange</b>	<b>Sydney, Australia</b>
<i>University of New South Wales</i>	<i>January 2023 (6 months)</i>
<ul style="list-style-type: none"><li>Researched mobile security protocols and GPU-accelerated graphics, adapting <b>global best practices</b> to coursework projects on secure communication frameworks.</li></ul>	

### PROJECTS

<b><u>SM Ninja</u></b>	<i>Next.js, TypeScript, Prisma ORM, MongoDB, Python</i>	<i>January 2025</i>
<b>Supermarket price comparison tool</b>		
<ul style="list-style-type: none"><li>Architected a scalable web scraper with Python/BS4 to extract and normalize pricing data from 2 UK supermarket s' webs, storing results in MongoDB.</li><li>Developed a Next.js frontend with dynamic filtering, <b>reducing user search time</b> by 40% through intuitive UI/UX design and client-side caching .</li><li>Secured the app with NextAuth and JWT, <b>implementing role-based access control</b> for admin-level data moderation .</li></ul>		

### AWARDS

<b>2<sup>nd</sup> Place – Linked Open Data Core</b>	<i>Python, JavaScript, React, Node.js, Linked Open Data</i>	<i>September 2024</i>
<ul style="list-style-type: none"><li>Constructed a Linked Data model for Madrid's socioeconomic metrics, enabling cross-municipality analysis via SPARQL queries and React-powered interactive dashboards.</li><li>Achieved industry recognition for innovative data linkage, enhancing public sector decision-making transparency.</li></ul>		