Jack **Loizel**

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Skills

- TypeScript | JavaScript | Python | HTML | CSS | MongoDB | Express.js | React | Node.js | RESTful APIs | CRUD | Git | Cypress | Ruby | NPM
- Frontend | Backend | Full-Stack | Spline | Notion | Figma | English (fluent) | French (fluent) | Spanish (proficient)

Experience

Loxa
London, UK
Junior Full Stack Developer
Mar. 2025 - Present

- Contributed to continuous improvements of the company's internal Rails Admin application by implementing new features and refining existing workflows to enhance operational efficiency.
- Enhanced the UI/UX across key admin interfaces, facilitating internal use and improving task execution speed.
- Built a full-stack application with a React frontend and Ruby on Rails backend, enabling tool owners to select and manage insurance coverage options through an intuitive interface.
- Currently developing a full-scale "Merchants Portal" platform (React + Rails), a centralised platform for merchant product management, as part of broader efforts to streamline internal processes.
- Wrote frontend end-to-end tests using Cypress and backend unit tests with RSpec to ensure application stability and maintainability.
- Collaborated closely with the team to implement scalable, user-focused features.
- Applied Agile methodologies and Git workflows in a fast-paced development environment.

AKT II
London, UK
Structural Design Engineer
Oct. 2023 - Apr. 2025

- Facilitated the engineering design of the New Murabba's £50 billion Mukaab project, meeting stringent design standards and tight deadlines.
- Developed automated parametric models using Rhino and Grasshopper, streamlining tasks and enhancing design precision, skills directly applicable to coding efficiency and scalable solutions in software projects.
- Designed several structural elements for the Aquellum project (part of Saudi Arabia's £1 trillion NEOM initiative), utilizing computational tools to improve design processes and ensure design accuracy.
- Optimized workflows by creating custom Grasshopper scripts, significantly reducing manual tasks and improving overall efficiency.
- Collaborated with cross-functional teams to integrate complex designs, demonstrating communication, teamwork, and problem-solving skills.

Notable Projects

metroguessr 🔗

- Developed an interactive web game using React, Node.js, Express.js, and MongoDB, reaching over 10,000 users.
- The game leverages responsive design and scalable backend architecture, featured in top publications like **TimeOut Paris**, **Le Bonbon** and **NewsShopper**.

Personal Portfolio 🔗

- Developed a responsive, modern portfolio website with React and Framer Motion to showcase my development work, design sensibilities, and technical projects.
- Features include a dynamic project gallery, contact form, and clean, user-focused UI.
- Built to provide a central hub for potential collaborators and employers.

Natalie's Next Stop 🔗

- Designed and built a custom travel blog to showcase Natalie's adventures through engaging stories and visual content.
- Implemented features like a dynamic blog engine, interactive travel map, Instagram API integration, and commenting system.
- Prioritized responsiveness and readability across devices.

Education

The University of Sheffield
Sheffield, UK
MEng Civil & Structrural Engineering - First Class Honours
Sep. 2017 - Jun. 2023

- Key Project: Dissertation
  - *Title* - The Critical Role of a Building's Design Process to Reduce Its Impact on the Environment
  - *Description* - Created a Grasshopper-based automation script to assess the environmental impacts of structural materials, enhancing my coding and algorithmic problem-solving skills.
- Focused on computational modeling, structural analysis, and project management, providing a strong foundation in problem-solving and analytical thinking.
- Participated in multidisciplinary team projects, developing the ability to collaborate effectively and communicate complex technical concepts clearly.

Leadership and Mentoring Experience

Captain, University Basketball Team
May 2019 - May 2023

- Led the university basketball team for four years, honing leadership, communication, and project management skills.
- Nominated for several awards at the university's sports awards, reflecting dedication, performance, and teamwork.
- Developed strong time-management skills, balancing academic responsibilities with extracurricular activities, and worked collaboratively with diverse groups.

Maths Tutor
Jun. 2018 - Jul. 2023

- Provided tutoring support to fellow students in French and Maths, enhancing their understanding and academic performance.
- Developed strong communication and interpersonal skills by adapting teaching methods to meet the diverse learning styles of students, fostering a supportive learning environment.