Jack **Loizel**

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Skills

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

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**.

Engenious Recruitment 📷 🔗
- Built a custom website for Engenious Recruitment using HTML, CSS, Typescript (React), and Node.js, optimizing their digital workflow and improving user engagement through seamless navigation and backend database integration.
- Designed a user-friendly interface that enhances navigation and meets the specific needs of both clients and candidates, ensuring a seamless user experience throughout the recruitment process.

HoopsToGlory 📷 🔗
- Created a basketball-themed incremental clicker game using Typescript, React, and MongoDB, focused on game mechanics and user experience attracting nearly 1,000 users and demonstrating skills in interactive game design and backend integration.
- Players make strategic decisions that shape their career with each choice influencing progress through interconnected gameplay mechanics, enhancing player engagement and decision-making.

Experience

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

- 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 project accuracy.
- Optimized workflows by creating custom Grasshopper scripts, significantly reducing manual tasks, showcasing strong problem-solving and process automation skills, similar to software development techniques.
- Collaborated with cross-functional teams to integrate complex designs, demonstrating communication, teamwork, and problem-solving skills critical for both engineering and software development environments.

AKT II
Structural Design Engineer Intern
London, UK
Aug. 2021 - Jul. 2022

- Created detailed design calculations and 3D models using advanced software tools, ensuring accuracy and efficiency in the engineering process.
- Contributed to the production of technical reports, demonstrating strong documentation and communication skills—essential for clear project deliverables.
- Assisted in preparing conceptual and outline designs for structural schemes, showcasing a strong foundation in problem-solving and creative thinking.
- Collaborated in multidisciplinary team meetings, honing skills in cross-functional communication and teamwork.
- Provided day-to-day support to colleagues across disciplines, illustrating adaptability and a collaborative approach to project execution.

Education

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