

# Joy Peng

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## SKILLS

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- **Frontend/Fullstack:** JavaScript, TypeScript, Node, Express, HTML5, CSS3; React, Next, Vue; TailwindCSS, React Query
- **Tools & Others:** Git, Github, Postman, Webpack, Jira, Figma, MongoDB, MySQL

## WORK EXPERIENCE

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### NIO Power Co.,Ltd | *Frontend Intern*

2022.08—2022.12

**Job Description:** Participated in the frontend development of the Energy Cloud service system and internal alarm system, providing services to NIO's internal operations team, third-party battery manufacturers, and charging station operators.

**Tech Stack:** Vue2, Vue3, TypeScript, Element-UI, Element Plus

- Added admin functionality to the PowerGo platform's task wizard page, restructured the permission management logic, and enabled message sending via Feishu by clicking the message icon.
- Integrated third-generation station metrics display functionality on the Athena platform.
- Developed the duty roster page for the internal alarm platform, supporting list pagination, sorting, and CRUD operations for duty groups and personnel.
- Resolved browser freezing issues with the element-ui cascading component when selecting secondary cities for German suppliers by implementing a virtual list, significantly enhancing page performance.
- Followed Agile/Scrum methodology with bi-weekly iterations, tracked project requirements using Jira, designed technical solutions, and closely collaborated with testing, backend, product, and design teams.

## PROJECTS

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### Ethical Digital Nation collaborative web app | Master's Thesis Project *Distinction*

2024.05—2024.08

**Project Overview:** Using participatory design and Agile development methodologies, conducted user interviews, thematic analysis, and workshops to gather and analyze requirements. Designed and developed a full-stack research collaboration platform to support Scotland's national vision for digital ethics.

**Tech Stack:** Next.js, React.js, TypeScript, Convex, Clerk, TailwindCSS, shadcn/ui, Resend

- Integrated Clerk for third-party login functionality, enabling Google and GitHub sign-in to enhance user convenience and platform security.
- Incorporated the Scottish Government RSS Feed to display the latest digital ethics news on the homepage, ensuring real-time updates. Developed a comprehensive event management system with create, read, update, delete, filter, and sort capabilities to improve operational efficiency.
- Implemented a multi-level commenting and rating system to enrich user experience and optimized communication through the Resend API for efficient email distribution and previews.
- Focused on responsive design and accessibility improvements to ensure the platform was user-friendly for individuals with visual and auditory impairments.

### Financial Time Series Knowledge Graph Query and Analysis Platform | *Contributor*

2022.04—2022.08

**Tech Stack:** React.js, umi, Ant Design Pro, Antv G6

- Maintained the platform during its mid- to late-stage development, fixed multiple bugs, optimized UI pages, and successfully completed the project's mid-term report.
- Developed the equity network penetration graph page, which significantly improved data visualization by displaying equity network penetration relationships and shareholder information through interactive charts.

## EDUCATIONS

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### University of St Andrews | *Master of Science Computing and Information Technology*

2023.09—2024.09

GPA: 17.4/20 1st Deans' List

### Wuhan University | *BA in Digital Publishing*

2019.09—2023.06

GPA: 3.81/4.0 (top 10%)

Received the National Encouragement Scholarship and the Outstanding Student Scholarships in 2021 and 2022.

## LANGUAGES & OTHERS

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- Languages: Fluent in spoken and written English (IELTS 7.5); Mandarin(Native); Korean(Basic)
- Eligible for a Graduate Visa and willing to cover costs for a work visa if necessary.

<sup>1</sup> Underlined content contains hyperlinks.