

# Xiaoyun Kong (Erica)

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## PROFESSIONAL SUMMARY

Skilled software development professional with expertise in front-end, back-end web development, data cleaning and Analysis. Proven ability to design and implement efficient and user-friendly software solutions using modern frameworks like React.js, Next.js, Django. Proficient in enhancing project efficiency and code quality. Experienced in utilizing Python and shell scripting for data analysis and automation, resulting in streamlined workflows and improved data accuracy. Strong foundation in computer science fundamentals, including object-oriented design, algorithms, cloud services and cloud computing, and data structures. Possess problem-solving skills, a strong ability to quickly learn and adapt to new technologies, and effective communication and collaboration within team environments.

## EDUCATION

### The University of Western Australia

*Master of Information Technology*

Feb 2024 - Present

- **Relevant Coursework:** Software Requirements & Design, Information Technology Capstone Project, Software Testing & Quality Assurance, Cloud Computing, Agile Web Development, Internet of Things, High Performance Computing

### Jilin Normal University

*Bachelor of Engineering in Optoelectronic Information Science & Engineering*

Sep 2013 - Jun 2017

- **Relevant Coursework:** Photoelectric Detection Technology, Photonics Technology Basis & Experiment, Signal & System, Principle and Application of Computer, Optical Fiber Communication Technology

## INTERNSHIP EXPERIENCE

### Coders for Causes (WAJO project)

*Back-end Developer*

Nov 2024 - Feb 2025

- **Database Design:** Structured and optimized database models using PostgreSQL, ensuring data integrity and efficient querying, leading to improved application performance.
- **Application Development:** Developed and maintained Django apps, handling user authentication to support seamless front-end interactions.
- **Testing & Debugging:** Wrote unit and integration tests using Django's testing framework, identifying and resolving bugs early, leading to more stable deployments.
- **Team Collaboration:** Worked closely with front-end teams to integrate APIs, optimize database queries, and improve system architecture, enhancing overall project efficiency.

### Coders for Causes (Penni project)

*Front-end Developer*

Jun 2024 - Jul 2024

- **Component Development:** Developed MVP project front-end components and pages using Next.js, ensuring seamless integration with backend services, resulting in a functional and user-friendly application.
- **Team Collaboration:** Communicated effectively with backend team members to address issues and provide critical project suggestions, enhancing project efficiency and coherence.
- **Code Review:** Reviewed code from other front-end team members, identifying and fixing bugs, which improved code quality and reduced deployment errors.

## PROJECT EXPERIENCE

### Static Web Development

Jun 2024 - Jul 2024

- **Static Web Development:** Developed static web pages using HTML, CSS, and JavaScript for a restaurant, creating an engaging online presence.
- **Deployment:** Deployed the website to GitHub Pages, ensuring reliable and accessible web hosting for client use.

### Python Project

Mar 2024 - May 2024

- **Data Cleaning:** Utilized Python for comprehensive data cleaning, applying libraries like pandas to preprocess and clean large datasets, resulting in accurate and usable data for further analysis.
- **Data Transformation:** Transformed raw data into structured formats, enhancing data quality and enabling more effective data analysis.

### Open Source Scripting Project

Mar 2024 - May 2024

- **Data Analysis:** Employed shell scripting for data cleaning and analysis, using tools like awk and sed to manipulate and analyze data sets efficiently.
- **Script Development:** Developed scripts to automate data processing tasks, significantly reducing manual effort and improving workflow efficiency.

## SKILLS

- **Technical Skills:** Python, JavaScript, HTML, CSS, SQL, TypeScript, React.js, Next.js, Django, C, Data Structures, Shell Commands, Microsoft Office, GitHub, AWS Certified Cloud Practitioner, Power BI.
- **Languages:** English (Fluent), Mandarin Chinese (Native)