Jie Zhang

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SKILLS

- **Data Analysis:** Experience with Tableau, strong interest in PowerBI.
- **Web Development:**
  - **Frontend:** React.js, TypeScript, HTML/CSS. Practical experience building responsive websites.
  - **Backend:** Node.js, TypeScript, Express. Expertise in RESTful API design.
- **Frontend Development:** Practical experience in building a responsive website's frontend with React.js, Typescript, HTML/CSS.
- **Backend Development:** Proven experience in building a website's backend with Node.js/Typescript and the Express framework. Restful API principles applied.
- **Database Management**: Experience with MySQL, Redis.
- **Testing:** Familiarity with unit test frameworks (JUnit) and automation tools (Selenium).
- **Python:** Solid knowledge of using Python as a development language.
- **Other Skills:** Agile Methodoloy, Test-Driven Development

TOOLS

- **IDE and Code Editors:** VS Code, Sublime, Vim.
- **Version Control Systems:** Git, GitHub.
- **Project Management Tools:** Jira (Agile Team Experience).
- **Collaboration Tools:** Microsoft Teams, WhatsApp.
- **Other Tools:** Unix command line, Linux operating systems.

PROJECTS

The Pandox Blog Website
Code repository: Backend | Frontend

- Independently built and deployed here.
- Implemented responsive design principles; 100% TypeScript codebase.
- Features: registration, sign in/out, blog creation/editing, commenting, profile customisation, search, recommendation system.
- Markdown-based blog pages support code highlighting, LaTeX formatting, and image resizing.
- Backend integrates MySQL, Redis, and ElasticSearch for data storage and retrieval.
- Frontend uses Redux for state management and styled-components for styling.

WORK EXPERIENCE

Software Development Engineer — Nov 2022 - Feb 2023

Huawei Technologies, Beijing

- Collaborated with a team of 5 to develop a proprietary sparse solver.
- Conducted performance testing and comparisons with established solvers on benchmarks within 1 month.
- Developed and optimised sparse kernel functions (e.g., sparse matrix multiplication) using C, OpenMP, and CMake, surpassing classical libraries.
- Migrated the solver's codebase from C to C++ following industry standards, using Git for version control.
- Created presentation materials and shared technical solutions in internal company meetings.

EDUCATION

- **Master of IT**, Charles Darwin University, 2024(expected)
- Master of Science candidate, Peking University, 2022
- **Bachelor of Engineering**, Beihang University, 2018

AWARDS & ACTIVITIES

- First-Class Outstanding Freshman Scholarship, Beihang University, 2014
- Member of the Beihang University ACM-ICPC Training Team, 2015-2016