# Jing Zhu

*Software Engineer*

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## PROFESSIONAL EXPERIENCE

**Co-creator, Software Engineer (https://www.otto-etl.com/)**                     2023 – 2023
*Otto*

Designed, prototyped and implemented Otto, an open-source, ETL workflow automation tool for scheduling, executing and monitoring of ETL data pipelines.

- Wrote a recursive algorithm that orchestrates the parallel execution of tasks using promises and memorization
- Automated the creation of cron jobs for workflow executions using Node-Cron
- Build modularized backend that enables speedy continuous development
- Constructed a working system for acquiring and executing arbitrary user code against multiple source data using Node-VM
- Created metrics and logging for execution history updated in realtime
- Wrote RESTful API endpoints that perform CRUD operations on workflow, execution, and metrics
- Developed an intuitive React front end using React Flow that enables workflow creation in a drag-and-drop manner
- Containerized Otto using Docker, achieving an 80% reduction in installation and configuration time
- Gave a live tech talk about Otto
- Authored Otto's comprehensive technical case study, viable here.

**Sr Mgr - Drug Sourcing Risk Analytics**                     2016 – 2021
*Cigna (Express Scripts)*

- Worked with a team of software engineers, designed and implemented a web-based risk management tool that analyzes supply chain risks
- Wrote complicated algorithms that measures risk from different aspects
- Created and maintain the risk databases

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## EDUCATION

**Launch School and Capstone Program**                     2022 – 2023

Multi-year, full-stack software engineering curriculum emphasizing mastery of core skills and programming fundamentals

**Masters of Science in Supply Chain Management**                     2015 – 2016
*Washington University in St. Louis*

**Bachelor of Finance and Operations Management**                     2008 – 2012
*Singapore Management University*

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## SKILLS

**Languages and Framework**
Javascript, TypeScript, Node, Express, React/Redux, Ruby, Sinatra, C#, Golang, Python

**Cloud**
AWS(Lambda, RDS), Heroku, DigitalOcean

**Other Technologies**
PostgreSQL, MySQL, MongoDB, Linux, HTTP, OOP, REST APIs, Git/GitHub, Docker, OAuth2.0, Ngnix, HTML/CSS, Tableau, PowerBI