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 memoization
- Automated the creation of cron jobs for workflow executions using Node-Cron
- Build modularized backend that enables speedy continuous development
- Constructed a system for acquiring and executing arbitrary user code against multiple sources of data using Node-VM
- Created metrics and logging for execution history that streams to the frontend in real-time using server-sent events
- Wrote RESTful API endpoints that perform CRUD operations on workflow, execution, and metrics
- Developed an intuitive React frontend using React Flow that enables users to create workflow in a drag-and-drop manner
- Containerized Otto using Docker, achieving an 80% reduction in installation and configuration time
- Collaborated with a remote team of 4 engineers using an agile workflow
- Authored Otto's comprehensive technical case study and gave a live tech talk about Otto

Senior Manager, 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 maintained the risk databases

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

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