Lireng Zheng

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Experiences

Software Engineer *July 2023 - Present*
RTX Corporation New York, NY
- Built **12+** features to **4+** applications that improve latency of 10K+ requests by 300ms using **TypeScript, Spring, SQL**
- Designed system to process **200,000+** line items per budget file into **Oracle**, reducing project creation time by **50%**
- Implemented migration of services into **Snowflake**, **AWS,** and **Git**, supporting program requirements for big data size
- Led technical meetings with other teams and stakeholders to deliver MVP promptly through **Zoom**, **Teams**, and **Jira**

Software Engineer *November 2022 - June 2023*
Itlize Global New York, NY
- Designed, built, and tested the Joole Marketplace Platform (JMP) for businesses to develop an online marketplace for building products. Utilized **Mockito** and **JUnit** for testing
- Visualized JMP by delivering features for personalizing profiles and user support using **TypeScript**, **Spring**, and **SQL**
- Migrated JMP into the cloud using **AWS CDK**, **ECS**, **S3**, and **Lambda** to manage serverless technology

Software Engineer Intern *July 2022 - August 2022*
BeaconFire Corporation New York, NY
- Directed the intern team to model and normalize AdventureWorks data warehouse using **MySQL** and **Hibernate** to speed up query processing by **15%** and backed up database files in **3NF**, providing proper transactional management
- Implemented a Guessing Game by having users attempt to guess randomly generated numbers using classes and their instance methods, variables, constructors, and other object-oriented programming concepts

Projects

OtakuSpeak - Japanese Learning App *In Progress*
- Created a language learning app for anime fans to learn Japanese through anime clips using **Angular** and **Flask**
- Implemented transcribing tool for audio clips using **Whisper** to provide translation, pronunciation and cultural notes
- Built extensive library feature, enabling users to browse through over **80+** anime titles and access direct viewing links

Cracking the Stock Market - Guide To Success *20 Hours*
- Designed **Python RAG** system leveraging **LlamaIndex** and **TruLens** to curate key fundamentals for stock trading
- Developed system using the sentence-window and auto-merging retrieval techniques to improve evaluation metrics in answer relevance, context relevance, and groundedness on over **40+** trading-related evaluation questions
- Implemented an interactive dashboard that displays resulting evaluation metrics using **Plotly**, **NumPy**, and **Pandas**

Personal Website - lirengzheng.com *15 Hours*
- Developed responsive portfolio webapp using **HTML5**, **CSS3**, and **jQuery**, effectively showcasing my skills and projects
- Implemented an automated deployment pipeline for website updates through **Github Pages** and **Hostinger**
- Built interactive feature to integrate language model **SimonAI**, adding personalized interactions using **Python**,**OpenAI**

Activities

AI NYC *Ongoing*
In-Person Meetups New York, NY
- Participated in meet & greets, focusing on key AI topics: machine learning, computer vision, ChatGPT, GPT, and more

Dev Community *Ongoing*
Online Networking Events New York, NY
- Engaged in online speaker info-sessions and Q&A events with the founder of **NexHealth**, **AppLovin**, and CPO of **Hinge**

Software Engineering Tutor *Oct 2016 - Jan 2021*
Angel Advantage Center New York, NY
- Facilitated student learning through hands-on projects focusing on web development in **HTML**, **CSS**, and **JavaScript**

Technical Skills

Languages- **Proficient:** Java (*7yr*), SQL (*5yr*), TypeScript (*4yr*)| **Intermediate:** JavaScript (*5yr*), Python (*3yr*)| **Beginner:** C (*2yr*)
Software- AWS | Snowflake | Oracle | Spring | Maven | React | Angular | JUnit | Mockito | Git | Jenkins | Jira | OpenAI | VSC

Education

Stony Brook University, Stony Brook, New York *May 2022*
Bachelor of Science in *Computer Science*
Relevant Coursework: *Software Engineering - Data Structures, Algorithms | Database Systems - RDBMS, Normalization, Schema Designs | Machine Learning - Decision Trees, Random Forests, Logistic Regressions | System Fundamentals - CPU Architecture, C Programming , MIPS Assembly Language*