JULIE LEE

SOFTWARE ENGINEER

CONTACT

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🌐 https://julielee9067.github.io/julie/

EDUCATION

2024 –
GEORGIA INSTITUTE OF TECHNOLOGY
- M.S. in Computer Science

2017 – 2022
UNIVERSITY OF WATERLOO
- B.S. in Mechatronics Engineering

SKILLS

- Python
- MongoDB
- PostgreSQL
- FastAPI
- Flask
- Docker
- AWS
- GCP
- RabbitMQ

PROFILE SUMMARY

Experienced and results-oriented **Software Engineer** specializing in data processing, backend system development, and scalable architectures. Proven track record of designing and implementing high-performance data pipelines, distributed systems, and backend services across various industries.

WORK EXPERIENCE

Tealbook   2022 - PRESENT
Software Engineer

Data Processing / Backend Service Management
- Processed and managed >300M data points from various sources
- Defined and integrated TNV process tailored to each data source

Data Pipeline Redesign
- Migrated the existing platform to a new MSA architecture using RabbitMQ message broker
- Implemented services for data crawling, transformation, normalization, confidence calculation, database storage, and human-in-the-loop
- Developed a detection client to prevent message queue bottlenecks using Keda, InfluxDB, Telegraf, Grafana, and Elasticsearch logs
- Designed and implemented a master data scheduling system to reintroduce legacy data into the pipeline

Web Application API Development
- Implemented the backend for a B2B solution to analyze supplier diversity and recommend new suppliers
- Developed and maintained REST APIs using Flask and FastAPI, and designed relational database schemas

AllUser.NET   05.2021 - 08.2021
Software Engineering Intern
- Built a data crawling system for over 25 websites to measure and optimize business advertising effectiveness
- Transformed, normalized, and validated collected data for machine learning model input

Nokia   01.2021 - 04.2021
Software Engineering Intern
- Developed a platform to resolve version conflicts among internal services
- Implemented functionality to store and retrieve services compatible with various versions

Intellisoft development inc   09.2019 - 12.2019
Software Engineering Intern
- Built a research paper posting and community website for undergraduate and graduate students using Groovy/Grails