

Hanpeng Wang


Software engineer with 3 years experience in developing robust business systems and web applications. Interested in building complex system and solving large scale problems.


Always open to technically challenging projects and motivating environments

Contact

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Employment

Software Engineer | Morningstar | Mar-2021 to Present

📍 Toronto, Ontario

As a member of delivery squad of DBRS Morningstar, participating in full SDLC for ratings delivery applications

Squad owns dbrs.com and its backend services, [ratings feed APIs](#), [RatingsNow](#) and other utility tools

- Maintaining and adding new features to dbrs.com and its server APIs. Also many handy apps for supporting credit ratings delivery including database syncing, ElasticSearch syncing, internal CMS etc.
- Architecting and implementing new services and critical modules for larger projects, including but not limited to
A replatformed RatingsNow data transform layer that's parallel, configurable and roughly O(1) running time regardless input scale, Fast and fault-tolerant ratings coverage service for business development team to attract high-profile clients
- Migrating and modernizing apps include legacy server to serverless, containerization, disaster recovery migration
- Building tools for reliable and fast-iterated products, examples include monitors, notifications, CI/CD pipelines, deployment tools
- Regularly conducting code reviews, leading some design sessions and new project presentations,
Mentoring new graduate and intern developers from both project architectural and lower level implementation perspective

Tech Stack Python, Angular, Node.js, .Net Core, AWS(Lambda, ECS, RDS Etc.), ElasticSearch, Redis, Directus CMS

Serverless Framework/Terraform, Jenkins/Teamcity, NewRelic etc.

Solutions Developer | Citco Group Limited | Nov-2020 to Feb-2021

📍 Halifax, Nova Scotia

- Developed serverless services for hedge fund back office operations. Implemented complex business logics into maintainable and readable modules. Regularly discussed and analyzed vague requirements from functional/business team

Software Developer | IBM (GBS) | Sep-2019 to Oct-2020

📍 Halifax, Nova Scotia

- With 5 other developers, completed an internal web app for Halifax office project showcase and team collaboration
30% web UI development and 70% server API development(including user management/auth, email feeds and bluepages sync etc.)
- Adhoc project from a Canadian bank where proposed a chatbot solution that digests SOP workflow and simplifies cash reconciliation
- Spent 2 months on a financial system project. Tasks include fixing defects, adding Junit tests and implementing adapter services on a producer-consumer architecture

Tech Stack Node.js, React.js, Java(Spring Boot), Kafka, CouchDB, Oracle

Relevant Undergraduate Jobs

- Summer Research Developer | Saint Mary's Econ. Depart. | 6 Months
Implemented an econometrical model ([Draft Version](#)) in R and C++ and the model was introduced in the supervisor's [research](#)
Optimized multiple areas for faster running time and less memory space, as well as reusability on augmented datasets
- Co-op Student | CNOOC (Nexen Energy) @ Calgary | 12 Months
Developed several tools for automating financial analysis and internal auditing work
Contributed to data analytics initiatives of applying statistical models for predicting expenses and tracking unusual business activities
Acted like a 'mini' product manager, promoted projects and digged out internal demands, regularly hosted presentations/discussions
- Summer Research Assistant | Saint Mary's Fin. Depart. | 4 Months
Wrote web crawlers scraping public financial statements, and extracted info. from PDFs, and the final stage was to reorder raw data

Education

Bachelor's degree - General Studies GPA:3.6 | Saint Mary's University | Graduated 2019

📍 Halifax, Nova Scotia

(Studied Finance and Maths but switched to a more flexible program in the last year)