

# 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](https://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)