

Donglin Jia

University of Waterloo

Computer Science (4A)

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LinkedIn:

www.linkedin.com/in/Donglin-Jia

GitHub:

<https://github.com/DonglinJia>

Website:

<https://donglinjia.github.io/angular-website>

Summary of Qualifications

- Proficient in Angular, Python JWE/JWT, GAN, Auto-encoder
- Work experience using TensorFlow, PyTorch, OpenCV, Django, Selenium, React, NodeJS, PostgreSQL, Docker, Linux, C++, TypeScript
- Positive attitude, hard-working, enjoy collaborating as well as working independently
- Strong in problem solving, trouble shooting and time management skills

Education:

- Candidate for Bachelor of Mathematics, Honors Computer Science, University of Waterloo, ON, September 2017 – present
- Relevant coursework: Artificial Intelligence, Machine Learning, Algorithm Designed, Operating System, Optimization, OOP

Awards:

- 2017 Euclid Mathematic Contest – Scored in the top 1.3% worldwide
- 2017 University of Waterloo Math Faculty Scholarship

Experience:

Machine Learning Engineer, Sugon | Qingdao, China | January 2021 – April 2021

- Led DNA storage project, coin detection project, and 2D image reconstruction project
- Applied GAN and Auto-encoder in DNA encoder project. The well-trained model can generate DNA sequences with 98% accuracy and reconstructed images with a loss of less than 5%; DNA encoder project is currently patent pending
- Implemented and refined neural networks (written using PyTorch). Used CUDA and GPU training acceleration
- Applied OpenCV in coin detection project and ODM in 2D image reconstruction
- Used Docker and Conda for different environment settings

Software Engineer Intern, Bank of Nova Scotia | Waterloo, Canada | September 2020 – December 2020

- Worked with senior production team to provide customer product level application
- Employed JWE and AES encryption algorithm to encrypt incoming data; Implemented JWT for digital signature verification using Node.js/Express.js
- Led, designed and implemented front-end layout using ReactJS
- Successfully resolved Cycle Dependency issues; Finished address Auto-complete task using Google Maps API on React side
- Maintained test coverage by using Jest and Chai

Innovation Engineer, Bank of Nova Scotia | Waterloo, Canada | September 2019 – April 2020

- Worked with senior back-end and front-end software engineers, and experienced UX design group; Implemented and developed an internal platform for Capital Market
- Applied Angular8 with various libraries (e.g. Chart.js, ag-grid) to implement front-end features and generated servers; Used Redux for frontend states management
- Communicated with stakeholders, Data Science group and UX design group to build features from scratch and finalize project
- Managed back-end by using Django and PostgreSQL, including building new endpoints, reorganizing backend data structure, and modifying database
- Overcame proxy issues when connecting various outside endpoints on Django side

Technical Systems Analyst, Royal Bank of Canada | Toronto, Canada | September 2018 – December 2018

- Optimized existing testing framework and accelerated testing speed by 17%
- Resolved legacy dependency issues
- Designed and developed testing framework using Selenium and Cucumber for offspring trading applications
- Communicated and worked with various groups to resolve unexpected issues

Relevant Projects:

MyBrary | NodeJS, CSS, MongoDB

- Upload images for creating new books; Capable for editing and deleting existing books; Connected to MongoDB for data management

Personal Website | Angular, Django REST

- Developed personal website for study purpose, daily planning
- Listed partial knowledge, self-learning contents, personal thoughts and understanding for academic concepts