



## Ningyuan Xu

### Year 3 Combined Major in Computer Science and Statistics, Bachelor + Master of Management

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#### Technical Skills

Programming: Java, TypeScript, JavaScript, C++, C, SQL, R, Python, Octave

Tools/Environment: Git, GitHub, Perforce, Heroku, SAP BusinessObjects, Crystal Reports

Testing: JUnit, Mocha, Chai, Jenkins, Travis CI

Web: HTML, CSS, React/Redux, NodeJS, MongoDB

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#### Work Experience

##### SAP Canada Inc., Vancouver (Software Test Developer) January 2020 – September 2020

- Performed regression, end-to-end and acceptance testing on SAP's BI products and trouble-shot over 50+ bugs/feature defects before they were delivered to customers
- Created, modified, and maintained automation chains using ASTEC and Jenkins on SAP Business Objects and Crystal Reports to ensure their patch upgrades had met the requirements
- Debugged and fixed errors in the automation test drivers and write Ruby scripts to run Jenkins automation
- Developed test cases, set up OpenStack/VMware VMs (Windows and Linux), and configured DB connections
- Validated bug fixes for customer incidents, facilitated cross-group collaboration with Shanghai and Paris teams and assisted the global delivery of software patches to meet strict release deadlines

##### Jiangsu Jiugao Electronic Technology Co., Ltd, Nanjing, China (Software Developer) July – September 2019

- Worked in a Chinese start-up company which developed chess games to simulate military training
  - Used Java to write an application that could turn TXT files into tree-structure mind maps in XML formats
  - Implemented a Python crawler to request web data and saved them automatically into Doc files
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#### Personal & Academic Projects

##### UBC TANTAN (MERN Stack Social Networking App, TypeScript) May 2020 – August 2020

- Built a web app (in a team of four) that can create posts, add/search for/recommend friends, and chat with them
- Implemented the front end using React/Redux + TypeScript, jQuery and Passport.js (logon/out and register)
- Connected the front end to backend using Express and Node.js, and set up MongoDB to store the data
- Deployed the web to Heroku, wrote unit tests in Mocha and Chai, and ran automated testing with Travis CI

##### Insight UBC (TypeScript) September 2019 – December 2019

- Completed the full-stack project with TypeScript which built a query engine for UBC courses and rooms
- Implemented the server side using RESTful API and tested the code thoroughly using Mocha and Chai
- Adopt agile scrum-based methodologies, and implemented a greedy algorithm to schedule course timetables

##### RateMyRestaurant for UBCers (Java, SQL) May – June 2019

- Applied Oracle JDBC database to build an application which could search for and rate restaurants
  - Wrote different kinds of SQL queries, such as selection, projection, and table joins
  - Drew ER diagram, wrote schemas and implemented the application using Java
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#### Education & Awards

##### University of British Columbia September 2017 – December 2022 (expected)

- Combined Major in Computer Science and Statistics + Master of Management in Sauder School of Business
- UBC International Major Entrance Scholarship (\$ 64,000)
- UBC First-Year Dean's List

##### Coursera May 2019 – September 2019

- Machine Learning by Stanford University Certificate (Grade Achieved 100 %)
  - HTML, CSS, and JavaScript for Web Developers by Johns Hopkins University (Grade Achieved 100 %)
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#### Volunteer Activities

##### UBC Visual Cognition Lab (Research Assistant - Developer) April 2019 – December 2019

- Developed an independent web framework with JSPsych and D3.js, to test individuals' perceptions to correlation and numerosity
- Analyzed data using R and visualized them by Jupyter Notebook
- Ran experiments and invited people to participate in the study

##### Nanjing Boai Shelter, China (Social worker) September 2016 – September 2017

- Assisted people with Intellectual Disabilities by teaching them daily living skills
- Sold items they made to raise money for their treatments
- Organized and performed a show with them and collected tickets' fees as a donation for them