

Bobby Yang

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EDUCATION

McGill University - School of Computer Science

Graduated: 2018

- Bachelor of Arts, Computer Science
- Bachelor of Arts, Economics

GitHub: <https://github.com/jbby>

Skills: (Proficient) Java, JavaScript, Cucumber, Git, Maven, JIRA; (Familiar) Python, SQL, C, HTML/CSS

EXPERIENCE

PTC

Montreal, QC

Software Developer (Current position)

June 2018 – Present

- Contributed to the construction of large scale RESTful IoT applications used by customers to connect over 100,00 unique appliances to the cloud.
- Led the integration of Cucumber automated acceptance tests to streamline integration testing within our build across multiple teams and increase code coverage while reducing the number of bugs by a factor of 5.
- Drafted documentation and directly communicated with clients to address high priority bug fixes in a timely and efficient manner.

McGill HackBoard

Montreal, QC

Financial Director

May 2017 – April 2018

- Planned McHacks, Montreal's largest and notable hackathon attended by over 1,000 hackers every year.
- Maintained the ledger, processed financial transactions, and reached out to corporations to raise over \$50,000 in sponsorships.

Arvato Systems

Shanghai, China

Software Engineering Intern

May 2016 – July 2016

- Helped develop enterprise software for large scale systems using Java EE's Spring Framework and Apache Maven and Git for project management.
- Implemented a fully distributed inter-process communication system using locks to prevent race conditions and ensure synchronization to properly update data across multiple servers.

Computer Science Undergraduate Society

Montreal, QC

Programming Tutor

September 2014 – April 2018

- Responsible for helping students with debugging and troubleshooting algorithms in Java and C.
- Led and held various workshops and tutorials to teach new students algorithms and abstract data types such as Linked Lists, Graphs, Trees, and showed examples through pseudocode.

PROJECTS

Quantitative Analysis Algorithm (Python)

- Developed a mean-reversion algorithm using Quantopian's API to analyze over 14 years of US equities data and back test against it.
- Optimized the trading algorithm to buy and sell securities on the stock market to generate profit, with necessary algorithmic adjustments to ensure maximized profits with minimal losses.

Text Generating Recurrent Neural Network (Python)

- Incorporated Python's Keras machine learning library to construct a LSTM recurrent neural net that generated fully readable Montreal Blog article titles.
- Enrolled human participants for adjusting input data processing and neural network structure to reduce overfitting and underfitting of generated text.

Discord Interactive Server Bot (Python)

- Engineered a responsive bot that leveraged Discord's API to communicate with the server and process user commands.
- Supported web scraping McGill's course website to generate course description, manipulating image macros for users' entertainment and creating weather reports via OpenWeatherMap.org.