XueYing (Dora)Hu

4B Computer Science University of Waterloo

about

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programming

Python, Golang,
C++, C#, C, SQL,
Java, R

web

Angular4, JavaScript,
Bootstrap, TypeScript,
node.js, HTML, CSS

database

Oracle,
MongoDB,
Redis

cloud

Docker,
Kubernetes

other

Linux, Android SDK,
Crystal Report,
MS Excel, LaTeX

achievements

– Designed accurate and complete auditing for futures trade flow at Broadway Technology
– Created an automated deployment service released world-wide in 4 Salesforce production centers that enabled teams to instantly ship updates with greater confidence
– Implemented new data driven and dynamic solution that greatly improved efficiency of a management module at the Ministry of Education
– Participated in research on disaggregated consensus protocol using RDMA for the cloud

work experience

01-now 2019 Software Engineering Intern   Microsoft, Redmond, WA
– Designed VM agent to automate customer application deployment in Azure Compute
– Implementing agent as a VM extension to retrieve and manage customer application life cycle
– Ensuring reliability with full suite of unit and integration tests

09-12 2017 Software Engineering Intern   Broadway Technology, New York, NY
– Created auditing for CME futures trading by reconstructing transaction flow from trading algorithms and front-end systems logs and database
– Implemented web scrapers for European fixed income data with calculations for financial instrument properties on client request
– Actively fixed production issues for existing scrapers

01-04 2017 Software Infrastructure Engineering Intern   Salesforce, San Francisco, CA
– *Automated deployment process* for control services in SAM (Salesforce's cloud PaaS) reducing deployment time from hours to less than a second
– Ensured service robustness and visibility with health checks and metrics
– Performed unit testing and incremental release from dev/test clusters to production while continuously monitoring and making improvements
– Improved automatic validations for pull requests
– Conducted code reviews for pull requests in the team's git repository

01-04 2016
05-08 2015   .NET Developer   Ontario Ministry of Education, Toronto, ON
– Dramatically decreased costs for reference table maintenance by rewriting management module to be completely dynamic and data driven
– Spearheaded first co-op innovation day and awarded for innovative solution
– Implemented functional requirement to collect new information including database and UI change, business rule validation, reports generation
– Maintained reporting for submission period-based historical data
– Aggregated time and type dependent Ontario diploma data for business analysis

research experience

09-12 2018   **Undergraduate Research Assistant**   University of Waterloo, Waterloo, ON
- Researched about disaggregated consensus protocols for the Cloud supervised by Dr. Bernard Wong
- Modified logcabin RAFT and Zookeeper implementation for benchmark comparison

05-07 2018   **Research Assistant**   International Blockchain Finance Lab, Beijing, China
- Setup Hyperledger Fabric and implemented prototype for a social dapp
- Participated in the organization of World Blockchain Finance Summit

awards

11 2017   **President's International Experience Award**   University of Waterloo

08 2016   **Dean's Honour List**   University of Waterloo

04 2015   **Co-op Innovation Day Award**   Ontario Ministry of Education

education

since 2014   **Bachelor** candidate in Computer Science   University of Waterloo, Waterloo, ON
Relevant Courses: Object-Oriented Software Development, Data Structures and Data Management, Foundations of Sequential Programs, Elemental Algorithm Design and Data Abstraction, Numerical Computations

02-06 2018   **Exchange Student** in Computer Science   Tsinghua University, Beijing, China
Relevant Courses: Distributed Database Systems, Introduction to Machine Learning

interests

since 2016   **Political Science Research**   University of Waterloo
Publications
- "China's 'Going Out' Strategy and Corporate Social Responsibility: Preliminary Evidence of a 'Boomerang Effect'". 2017. *Journal of Contemporary China* 26(108). Co-authored with Dr. Hongying Wang. doi: 10.1080/10670564.2017.1337301
- "The New Great Leap Forward: Think Tanks with Chinese Characteristics". 2017. *CIGI Papers Series*. Co-authored with Dr. Hongying Wang.