

Yuyang Liu

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OBJECTIVE

To seek a machine learning engineer/researcher position where I can contribute my ML knowledge and analytical skills for the innovation of technologies.

EDUCATION

- 2018 – Present **Master of Computer Science, Software Engineering**, University of Toronto, Toronto, Ontario.
Machine learning, Quantum computing, Natural language processing, Data science
- 2010 – 2015 **Bachelor of Computer Science, High Distinction, Software Engineering, minor in Mathematics**, Carleton University, Ottawa, Ontario.
GPA – 11.4/12

EXPERIENCE

Industry

- November 2017 – August 2018 **Senior Software Developer**, *SmartCore*, Managed Data Services, BMO Financial Group.
- Master Data Management.
 - IBM Pure Query.
 - Worked with JMS Topics for communicating messages.
 - EJB transaction exception handling.
 - J2EE technologies Servlets, Java Beans, EJB, JNDI, JDBC, JMS, Ant, Log4J, XML DOM, Web Services, SOAP using J2EE design patterns.
 - Performance tuning with JMeter.
- January 2016 – November 2017 **Software Developer**, *WCE Supply Chain Insights*, WCE Commerce Insights, IBM Canada.
- Application on cloud deployment and development (DevOps)
 - Developed Swagger based auto-generated REST framework injected by google guice to support automation test. (Java/RestAssured)
 - Enforced security standards in full SaaS offering software. (OWASP/AppScan)
 - Pipelines for continuous testing. (Jenkins)
 - Container based micro service on the cloud based environment. (Docker)
 - Deployment automation scripting. (Bash)

Internship

April – December **Software Engineer, Talk With Sam.**

- 2015 ○ Architected the backend server to handle the real-time client requests. (Restful / Postgres)
- Integrated the server side payment system with the third party to process transactions for the iOS mobile platform (Third party integration)
- Designed and implemented a flexible reservation system for distributed clients (Ruby on Rails)
- Developed the push notification module for mobile devices (Open Source Library)
- Enforced security and authentication.

Winter 2013 **Software Tester, Alcatel-Lucent, Ottawa, ON.**

- Designed customized scripts with regular expressions to find inconsistencies in the database during software upgrades. (Perl)
- Developed SoapUI based test suites and integrated them into Robot Framework which is a generic test automation framework. (Jython/Java)

Summer 2012 **Software Engineer, AppZero, Ottawa, ON.**

- Developed the Dependency Walker to recursively retrieve module information inside Portable Executable tables. (C++)
- Incorporated Windows API into application to manage Windows Updates across several versions of Windows OS. (C#)

SKILLS AND ABILITIES

- Research and application of machine learning techniques on robotics and health problems
- Quantum computing
- Demonstrated algorithmic thinking through the discovery of solution for research oriented problem
- Ruby on Rails backend development experience in a high growth environment at a start-up company co-founded by friends

APPLIED PROJECTS

Talk With Sam TWS is an O2O(Online To Offline) mobile platform which provides a bridge between tutors and students of English learners. It is a real time reservation system and works like Uber where a student can request to meet tutors and the tutor can make decisions to the requests. A third party payment system is embedded through REST requests. The server is API based and resided over ruby on rails, deployed on Heroku.

Honors

2010 - 2013 Carleton University Entrance Scholarship