

Jiaqi Xu

169 Lees Ave, Ottawa, Ontario, K1S 5M2

☎ (613)261-8851 • ✉ jxu930405@gmail.com

Personal Website: <http://jqx.world>

Objective

Software Engineer/Developer

Qualifications

- Proficient in **Data Structure and Analysis and Design of Algorithm**
- Proficient in **Python**; Familiar with **Java, C#, CSS3, HTML5, Markdown, JavaScript, JQuery**
- Proficient in **SQL** and **Microsoft SQL server**; Familiar with **SQLite, MySQL, MongoDB**
- Familiar with **Linux, Bash, Git**
- Familiar with **ORM/ODM** such as **Django ORM, SQLAlchemy, Hibernate** and **PyMODM**
- Good understanding of **TCP/IP, Computer Network, Design Pattern, Test Automation**

EDUCATION

University of Ottawa, Ottawa, ON — Master of Computer Science (Co-op)

September 2015 – June 2017

- GPA: 9.67/10
- Teaching assistant of undergraduate course: CSI 4105 Design & Analysis Of Algorithms II and graduate course: CSI 5166 Application Of Combinatorial Optimization
- Completed a Distributed Computing Project supervised by Paola Flocchini

Changchun University of Science and Technology, China — Bachelor of Computer Science

September 2011 – June 2015

- GPA: 3.81/4; School Ranking: 2/128
- Enrolled in an exchange program with the University of Ottawa with a \$15,000 scholarship

EXPERIENCE

Stilo International, Ottawa, ON — Software Developer

Migrate is a cloud-based conversion service. Clients can upload their documents in a number of source formats and have them automatically converted to XML.

August 2018 – September 2019

- Addressed issues and added new functionality to the server side of Migrate which is implemented using the Python-based Django web framework.
- Ported entire Python/Django implementation from python 2 to python 3.
- Implemented user roles with fine grain permission for the admin site and implemented 2-factor authentication for the admin site of Migrate to increase security.
- Leaned Stilo's own proprietary programming language called OmniMark. The conversion logic of Migrate is implemented in OmniMark.
- Created XML importers based on custom client DTDs for Migrate.
- Fielded support requests, requiring to dig into code base (in OmniMark) and determined the right solution to apply.
- Improved automated test suite for Migrate.

Technologies:

Python, Django, SQLite, Nginx, uWSGI, OmniMark, Emacs, Bash, XML, DITA, DTD, Perforce, Git

Numerator, Ottawa, ON — Software Developer

September 2017 – August 2018

- Created and grew a library of thousands of web-crawling bots
- Solved leading bot blocking Issues (Captcha, IP address, CDN Server)
- Developed, maintained back-end code and implemented APIs for a B2B system
- Analyzed and improved product matching algorithm
- Analyzed and extracted data from webpages and generated daily/weekly reports for customers

Technologies:

Python, Scrapy, Flask, SQLAlchemy, MongoDB, PostgreSQL, XPath, JSON, HTTP/HTTPS, Bash, Postman, Web Inspector, Sumo logic, Docker, Jenkins, Shipit, Git

IT Solutions, uOttawa, ON — Software Developer (Co-op)

May 2016 – December 2016

Development and maintenance of a MVC-based web application (Coop Navigator) used to manage all aspects of COOP program.

Responsibilities:

- Developed and debugged user controls, web services and DAOs for the business process management of interview module
- Built up user interfaces for clients (staff, employers, students)
- Refined user interactions and client operations
- Developed new features identified by client requirements and specifications
- Data cleansing for the old entities and mappings in the existing system
- Designed database triggers, functions and views

Technologies:

C#, ASP.NET, MVC, NHibernate, HTML5, JQuery, Microsoft SQL Server, SVN

PROJECTS

<http://jqx.world/projects>

Public Profile

- LinkedIn: <https://www.linkedin.com/in/jiaqi-xu/>
- Github: <https://github.com/jiaqi-xu>
- Blog: <http://jqx.world/>
- Reference: <http://jqx.world/about/#reference>