Jiaqi Xu

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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/