Jiaqi Xu

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Objective

Software Engineer/Developer

Qualifications

- Proficient in **Data Structure** and **Analysis and Design of Algorithm**
- Proficient in **Python**, **Java**; Familiar with **C#**, **CSS3**, **HTML5**, **Markdown**, **JavaScript**
- Proficient in **SQL** and **Microsoft SQL server**; Familiar with **MySQL**, **MongoDB**
- Familiar with **Linux**, **Bash**, **Git/Github**
- Familiar with **ORM/ODM** such as **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
- 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, Ottawa, ON — ***Migrate Engineer***

August 2018 – Present

Technologies:

Python, Django, SQLite, Ngnix, Omnimark, Emacs, Ubuntu 16.04, Bash, XML, DITA, DTD, Ansible, Machine Learning, Perforce, Git

Market Track/360pi, Ottawa, ON — ***Software Developer***

September 2017 – August 2018

An award-winning price intelligence engine that helps retailers and manufacturers monitor pricing to increase sales and margins and optimize product mix.

Responsibilities:

- 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

University of Ottawa, Ottawa, ON — *Teaching Assistant*

January 2017 – April 2017

- Teaching assistant of undergraduate course: CSI 4105 Design & Analysis Of Algorithms II and graduate course: CSI 5166 Application Of Combinatorial Optimization
- Aided students in understanding important concepts and gave guidance where necessary
- Graded assignments, exams and identified areas where students had difficulties
- Scheduled regular weekly meetings with both students and the professor, in order to receive and offer feedback

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

Web Applications

- Movie Studio (In Development)
- Article Management System

Tags: Python, Flask, Blueprint, SQLAlchemy, Bootstrap, MySQL

- Personal Website (www.jqx.world)

Tags: Jekyll, Markdown

- Hitachi Store

Tags: Asp.net, C#, Microsoft SQL server

Scrapy Project

- Designed spiders to crawl free proxies
- Designed spiders to simulate login and crawl webpages based on crawled proxies
- Analyzed and made decision based on models built by extracted data

Tags: Python, Scrapy, PyMongo, MongoDB

Adapting JBotSim to Look-Compute-Move robot systems (Java Project)

- Adapted an existing tool (JBotSim), which is designed for implementing and visualizing distributed computations, to a specific robot model
- Designed a specific robot model that follows a Look-Compute-Move life cycle
- Added new primitives (e.g., discrete environment and presence of obstacles) to the adapted tool to facilitate the development of mobile robot algorithms
- Implemented a gathering algorithm with robots in the presence of obstacles

Public Profile

- LinkedIn: https://www.linkedin.com/in/jiaqi-xu/
- Github: https://github.com/jiaqi-xu
- Blog: http://jqx.world/