

Kathryn Xing

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Skills

Languages: C++, Python, HTML/CSS, JavaScript, Java

Technologies: MongoDB, NodeJS, Django/React/Backbone/AngularJS, Git

Work Experience

Web Developer, University of Waterloo

May 2020-Aug 2020

- Executed full software development cycle in creating the *Latex2Mobius* web app to help professors quickly adept Latex materials to online teaching environments.
- Developed simple backend Model-View-Controller-like routing structure utilizing **PHP** global variables.
- Simplified file handling to deliver minimum viable product quickly while leveraging security requirements.
- Efficient remote collaboration with team using **Git**, Jira and conferencing technologies.

Frontend Developer, Klick Health (*Internship offer accepted, rescinded due to COVID-19*)

Mar 2020

Project Delivery Intern, CGI Technology Consulting

May 2017-Dec 2017

- Tracked and visualized sales funnel, account receivables, member utilization and other metrics across sectors.
- Communicated with various internal departments and coordinated weekly executive review meetings.
- Actively engaged in early bidding and proposal process to help identify relevant solicitations in Ontario Manufacturing, Retail, Distribution and Insurance industry.

Committee member and deputy VP, Student Association Sponsor Relations

Sep 2016-Apr 2017

- Negotiated sponsorship contracts with 20+ restaurants delivering discount benefits to all art faculty students.

Projects

kathrynxing.com, Personal website

- Designed, implemented, tested and deployed website using **Node.js**, **Express** and **CSS** and **Bootstrap**, Chrome DevTools and Heroku.
- Built up HTML with embedded JavaScript templating to support dynamic content generation.
- Used **JavaScript**, **JQuery** to create button function and dynamic navigation bar.

Chess Project, Multi-level C++ chess game

github.com/kathrynxing/TUNACHess

- Built an interactive chess game with three difficulty levels following sound software development principles.
- Designed (UML), implemented and debugged program using debugging (GDB), code management (make), and version control tools (svn) and collaboration tools.
- Resolved issues from pooling code from all members with excellent communication skills in group settings.
- Received a mark of 98% based on program execution and demonstration as the course culminating project.

Education

University of Waterloo, Computer Science and Finance

Sep 2016-Dec 2021

Courses:

- *Intro to Security and Cryptography*: Symmetric and Public Key Encryption Schemes, Applications, TLS and SSH
- *Numerical Computation*: **Python** with Pandas, image/signal processing with numerical methods
- *Data Structures and Algorithms*: Effective methods of data organization, dynamic programming