

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Frontend Developer, Klick Health (*Internship offer accepted, rescinded due to COVID-19*)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

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.

WhereToStudy, node webapp with RESTful routing

kathrynxing.com/wheretostudyDemo

- Used data from google map **API** to show the location of empty classrooms, available spaces.
- Managed user login and posting information with non-relational database **MongoDB** and express-passport.

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

Extracurricular:

- Managed and negotiated sponsorships at AFSA Student Association as committee member and deputy VP.