

Xinjian Fu (King)

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<https://kingfxj.github.io>

<https://github.com/kingfxj/>

EDUCATION

• University of Alberta

BSc Specialization in Computing Science — GPA: 3.3

Edmonton, AB
September 2019 - December 2021

◦ Education:

- Programming Languages - Python, C, C++, Java, SQL, *PROLOG*, *LISP*, *HTML*...
- Algorithms - Searching, sortings, graphics, dynamic, backtracking, State-space search, deterministic shortest path, combinatorial optimization, constraint satisfaction, multi-agent problems and so on.
- Database, File and Information Retrieval - SQL, relational query languages, organizing and searching through large collections, concurrent execution of transactions, indexing, advanced constructs in SQL, semi-structured data models, distributed and parallel databases, cloud-based database systems.
- Gaming - Algorithms and theory that solves puzzles (mazes, peg solitaire) or play games (chess, Go, Hex), GPU parallelism, hardware architecture, algorithmic design and principles of programming for GPU for high performance
- Web Application - HTML, CSS, Javascript, REST, Django, modern web information systems, web data exchange and serialization, service-oriented middleware.
- Artificial Intelligence - Building Intelligent software systems and agents, include search and problem-solving, knowledge representation, reasoning, reasoning and acting under uncertainty, and machine learning
- Software Process and Product Management - Review phases from a process perspective, architectural and technological impact on management.

EXPERIENCE

• Tim Hortons

Edmonton, AB

Supervisor, Trainers, Members, cashier, Baker

May 2022 - Feb 2023

- Lead by example and encourage your team to make Guests their highest priority. Share ideas, look for opportunities to grow the business and empower your team to do the right thing
- Put my supportive nature to work. Train, coach and build a strong team with the skills and knowledge they need to excel
- Bring my energy and passion to work every day and help make coming to Tims the best part of someone else's
- Execute Tim Hortons' standards around people, product, cleanliness and exceptional customer service while on shift
- Produce the best loved bakery items that guests come to enjoy

• Eyes High Education & Technologies Ltd

Edmonton, AB

Tutoring computing science - CMPUT 174 / 175 / 201 / 291

September 2019 - April 2020

- Helping students with understanding course material both remotely and in person
- Explain course homework, assignments to students
- Guide students through the homework and assignments
- Course resources include Python, C, C++, unix system, SQL

• TeamUp Science at University of Alberta

Edmonton, AB

Computing Science workshop TA

Feb 2020 - December 2021

- Create computing science workshops for university, high school and junior high students
- Teach students Python who previously had experience with Python
- Teach intermediate students program Java applications

External communication volunteer

Sept 2019 - Apr 2020

- Advertising TeamUp Science workshops to high school students
- Volunteer for computing science workshop as a TA to explain Python to high school students

SKILLS

Operating Systems: *Microsoft Windows, Mac OS, LINUX, UNIX*

Software: *(Proficient): Python, C, C++, Java, Linux, SQL, non-procedural programming (lisp, prolog), Git, HTML, CSS*

(Familiar): CSS, REST API, Docker, Docker, Android

Projects

- Mturk Experiment (<https://github.com/kingfxj/mturk-experiment>)
 - We use an API from Amazon cloud based Amazon Mechanical Turk website run by Amazon to help "requesters" who create human intelligence tasks to manage their HITs and data that cannot be completed by machines but by human "Turkers" workers.
- ZeroHunger (<https://github.com/kingfxj/zeroHunger>)
 - We build a website that connects restaurants, grocery stores and individuals who wish to donate food with organizations that are in need of food such as food banks.
- AliMama (<https://github.com/kingfxj/AliMama>)
 - UI StoryBoard (<https://github.com/CMPUT301F19T08/AliMama/blob/master/doc/UI%20Storyboard-1.png>)
 - We built an android mobile application that allows users to post, track, and share their moods to assist in understanding the emotional states and triggers of individuals and groups. To use this app, simply git clone this repository and run it.
- Ranked Dictionary (<https://github.com/kingfxj/RankedDictionary>)
 - We designed and implemented a program that will build Inverted Index's Dictionary from a json formatted corpus. Users can run their query with a query program with top ranked documents.
- Inverted Index (<https://github.com/kingfxj/InvertedIndex>)
 - We designed and implemented a program that will build inverted indexes from a json formatted corpus. Users run their query with a query program.