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Xinjian Fu (King)

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HIGHLIGHT OF SKILLS

- Advanced programming skills using **Python, C, C++, Java, HTML, CSS**
- Familiarized programming skills using **Non-procedural programming (LISP, prolog), REST, Docker, API**
- Operated systems including **Linux, Mac OS, Windows**
- Demonstrated strong **communication** skills in group leadership and one-on-one tutor
- Developed strong **leadership** skill from 4 people small team consulting clients to virtually lead servers with hundreds of participants

EDUCATION

- **BSc Specialization in Computing Science** Sep 2019 - Dec 2021
University of Alberta *Edmonton, AB*
 - Education:
 - Learned algorithms including **graphics, dynamic**, backtracking, State-space search, deterministic shortest path, **combinatorial optimization, constraint satisfaction, multi-agent problems** and so on
 - Developed algorithms and theory for gaming that **solves puzzles** (mazes, solitaire, chess, Go) and principles of programming **GPU for high performance**
 - Built Intelligent software systems and agents for **Artificial Intelligence (AI)**
 - Created **web applications** using **HTML, CSS, Javascript, REST, Django, modern web information systems, web data exchange and serialization, service-oriented middleware**
 - Used **relational query** languages and **concurrent execution** of indexing and advanced constructs in **SQL** on **large** collections, **semi-structured** data models, **distributed** and **parallel** databases, **cloud-based** databases
 - Reviewed phases of projects from a **process** perspective and technological impact on **management**

WORK EXPERIENCE

- **Supervisor, Trainer, Member, cashier, Baker** May 2022 - Feb 2023
Tim Hortons *Edmonton, AB*
 - Demonstrated excellence of customer service by making guests our highest priority and communicating with the customer and the team to provide the correct orders
 - Lead by example and encouraged my team to make Guests as the highest priority
 - Shared ideas, looked for opportunities to grow the business and empower my team to follow the standards and do the right thing
 - Mentored, coached and built a strong team with my supportive nature to grow the skills and knowledge they need to excel
- **Tutor for Computing Science** Sep 2019 - Apr 2020
Eyes High Education & Technologies Ltd *Edmonton, AB*
 - Presented Foundations of Computation, Practical Programming Methodology, File and Database Management courses to undergraduate students with different backgrounds
 - Explained course homework and assignments to help students understanding course material both remotely and in person who had different backgrounds
 - Answered concerns of students and provided viable solutions to individual problems
 - Lectured course including Python, C, C++, unix system, SQL
- **Teaching Assistance** for Computing Science Workshop Feb 2020 - Dec 2021

- Constructed and implemented computing science workshops for university, high school and junior high students
- Instructed Python to students who previously had no experience with programming
- Presented Java program to intermediate students

• **External communication** volunteer

Sep 2019 - Apr 2020

TeamUp Science at University of Alberta

Edmonton, AB

- Provided speeches to class of students (30-40) to encourage them to pursue their dreams in university and an opportunity to explore their interest in science
- Engaged youths in cultivating their scientific curiosity
- Advertised TeamUp Science workshops to junior and senior high school students

PROJECTS

• **Mturk Experiment** (<https://github.com/kingfxj/mturk-experiment>)

Winter 2021

CMPUT 401

- Utilized an API from Amazon **cloud based** Amazon Mechanical Turk website run by Amazon
- Helped "requesters" (create human intelligence tasks) to manage their HITs and data
- Human "Turkers" workers completed HITs and data

• **ZeroHunger** (<https://github.com/kingfxj/zeroHunger>)

Winter 2021

CMPUT 401

- Built a **website** that connects restaurants, grocery stores and individuals
- Individuals were able to donate food to organizations such as food banks
- Sent request to organizations from individuals who are in need

• **Ranked Dictionary** (<https://github.com/kingfxj/RankedDictionary>)

Winter 2020

CMPUT 391

- 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>)

Winter 2020

CMPUT 391

- Created and implemented a program that will build inverted indexes from a json formatted corpus
- Users run their query with a query program

• **AliMama** (<https://github.com/kingfxj/AliMama>)

Fall 2019

CMPUT 301

- Created UI StoryBoard (<https://github.com/CMPUT301F19T08/AliMama/blob/master/doc/UI%20Storyboard-1.png>)
- Developed 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