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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 **searching, dynamic, optimization, satisfaction and multi-agent problems**
 - 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)**
 - Regarding
 - 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** database systems
 - 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
TeamUp Science at University of Alberta Edmonton, AB
 - 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
TeamUp Science at University of Alberta

Sep 2019 - Apr 2020
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>)
CMPUT 401

Winter 2021

- Utilized 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

- **AliMama** (<https://github.com/kingfxj/AliMama>)
CMPUT 301

Fall 2019

- 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. To use this app, simply git clone this repository and run it

- **ZeroHunger** (<https://github.com/kingfxj/zeroHunger>)
CMPUT 401

Winter 2021

- Built 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

- **Ranked Dictionary** (<https://github.com/kingfxj/RankedDictionary>)
CMPUT 391

Winter 2020

- 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>)
CMPUT 391

Winter 2020

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