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
  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   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 are 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 I**nverted 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