Keyu Wang

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Education

McGill University, CGPA: 3.95/4.0   **September 2020 − December 2024**
B.Sc. in Computer Science, minor in Geographic Information Science   *Montreal, QC*

Courses: Model-based Programming, Algorithm Design, Discrete Math, Applied Machine Learning, Computer Vision, Advanced Geographic Information Science

Awards: Dean's Honors List(2x), NSERC Undergraduate Student Research Awards 2023

Experience

AI & Data Engineering Intern   **May 2023 − December 2023**
Bell Canada   *Montreal, QC*
- Built ML algorithms including clustering on business sites using Python ML frameworks such as Scikit-learn.
- Data analysis & engineering support for building training dataset of a Presence-only model about Competitors' Network Speed Analysis, using Teradata SQL, SAS, etc.
- Utilized Agile methodologies (Scrum) to ensure effective collaboration with team members, using JIRA Board.

Research Assistant   **February 2023 − January 2024**
Department of Geography, McGill   *Montreal, QC*
- Built **project website** from scratch for Historical Geography research project under the supervision of Prof. Raja Sengupta, using JavaScript, HTML, Leaflet.
- Map Digitization for boundary changes throughout 200 years in early imperial China (Western Han period), using Python & ArcGIS.

Head Instructor Coding & Game Design   **June 2022 − August 2022**
Appleby College Camps   *Oakville, ON*
- Planned course materials for coding and video game design camps, and taught basic Python and GameMaker to over 140 children from 7 to 14 years old.
- Organized weekly showcases & maintained close communication with campers' families for study update.

Projects

Frame Prediction for Aerial Objects | *Computer Vision, OpenCV, MATLAB*   **December 2022**
- Developed object tracking & frame prediction methods for aerial objects in MATLAB based on classic computer vision algorithms.

California Gold Rush Historial Storymap | *JavaScript, HTML, MapBox, GeoJSON*   **October 2022**
- Visualized the history and impacts of immigration to California during 1848-1869 via a storymap.

Skills

Programming Languages: Python, Java, C++, C#, HTML/CSS, JavaScript, MATLAB, Bash, OCaml
IDE/Tools: VS Code, Eclipse, IntelliJ IDEA, PyCharm, Jupyter Notebook
Technologies/Frameworks: Linux, Git, GitHub, GitLab, JUnit, JavaFX, Sci-kit Learn
Databases: PostGreSQL, DB2, Teradata SQL, Microsoft SQL, SAS
Spoken Languages: English, Mandarin Chinese(both native fluency), Japanese (JLPT N2)

Leadership / Extracurricular

McGill University Chinese Students & Scholars Association   **September 2020 − Present**
Vice President Media - Senior Advisor
- Developed webpages on WeChat Official Accounts for 70+ sponsor stores promotion displays; got 1000+ student users.
- Planned, filmed & edited creative promotion video contents as a leader for club sponsors (such as Liuyishou Hotpot, Presotea, etc.) 3 times each year.
- Co-Directed Montreal Lunar New Year Gala, actively involved in auditions & rehearsals, stage setup, etc.

East2West   **April 2023 − Present**
Dancer, Editor
- Active dancer and video editor for a K-pop cover performance crew with a YouTube channel of 1.5M subscribers.