SHENGNAN ZHANG

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EDUCATION

Northeastern University, Boston, MA *Sept. 2023 - Current*
Master of Science in Information Systems - 3.5/4.0

Shanghai Normal University, Xuhui District, Shanghai *Sept. 2019 - Jun 2021*
Master of Arts in Education - 3.3/4.0

SKILLS

- **Languages**: Python, C++, Java, Matlab, R
- **Tools**: GitHub, Arduino, 3D Printing, Laser cutting

INTERNSHIP AND PROJECTS

- **Data Analyst at KOA** *Aug. 2022 - May. 2023*
  - Processed various data sources using mining and analysis tools such as Python, R, SPSS.
  - Extracted data using Oracles and MySQL databases, and created monthly data statistical reports.
  - Applied models like regression analysis, classification, clustering, and association rules for data analysis.
  - Communicated across teams, analyzed potential business opportunities, and presented suggestions.
- **Researcher at Youth Development Program** *Sept. 2020 - Jun. 2021*
  - Studied maternal intelligence failure implicit theories and preschoolers' resilience.
  - Conducted the Chinese version of Devereux early childhood assessment for preschoolers.
  - Assisted the supervisor in conducting questionnaire distribution and scale testing.
  - Collaborated with others in using SPSS, Amos, and Mplus to clean, analyze and model the data.

ACADEMIC PROJECTS

- **MBTA-Tracker** *Jan. 2024 - Feb. 2024*
  - Built a website to track the buses operated by MBTA using HTML CSS and Javascript.
  - The website retrieves the data related to the buses using the open API offered by the MBTA. The coordinates are parsed and are converted to Spherical Mercator Projection to be displayed on the map.
- **Robot Arm** *Jan. 2024*
  - Built a 3 axis robot arm using 3D printed parts and servos that can be controlled by a CLI.
  - Wrote code to transform real world co-ordinates into the angles of the joints so that the arm can be positioned accurately by inverse kinematics control.
- **K-Means and KNN used to detect lies** *Dec. 2023*
  - Implemented a version of the K-Means and KNN algorithm on a dataset to detect if a person is telling a lie or not.
  - The features of the dataset contained information regarding the perspiration and skin conductivity of the person.