Wei Miao

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SUMMARY

Looking for a full-time software engineer position. Authorized optional practical training (OPT).

EDUCATION

- **University of Colorado Boulder** — Boulder, CO
  Master of Science in Creative Technology and Design; GPA: 3.7/4.0 — *Aug. 2017 – May. 2019*

- **Jilin University** — Changchun, China
  Bachelor of Science in Computer Science — *Aug. 2006 – July. 2010*

PROGRAMMING SKILLS

- **Languages**: Java, Python, Javascript, C/C++, Swift, HTML, CSS
- **Frameworks**: Scikit-learn, Pandas, Numpy, D3, React, Vue
- **Platforms**: Linux, Android Studio, Xcode, MySQL, Git, Unity, Tableau, SolidWorks

WORK EXPERIENCE

- **ROBAUTO** — Boulder, CO
  Software Engineer — *Mar 2015 - Present*
  - **Robotics OS**: Responsible for educational robot platforms development. Built a robot operating system based on the Raspbian. Developed a Web UI and an Android app for robot controlling. Led and organized robot workshops for kids and families at local libraries and elementary schools.

- **Adams Online Ventures** — Remote
  Software Engineer — *June 2018 - Aug 2018*
  - **Data pipeline**: Developed an extract-transform-load (ETL) pipeline for customer data using Python. Extracted data from files in different formats/schemas. Loaded the transformed data into MySQL.

- **STRYD** — Boulder, CO
  Mobile Software Engineer — *Mar 2017 - July 2017*
  - **Mobile App development**: Developed the on-boarding tutorial for Stryd product in the iOS and Android app. Built the prototype of the Apple watchOS app that can sync data with wearable device via Bluetooth.

- **PACTERA** — Beijing, China
  Software Engineer in Test — *Feb 2011 - July 2013*
  - **Integration test**: Led mobile phone modem firmware integration testing for ST-Ericsson.

- **BEYONDSOFT** — Beijing, China
  Software Engineer in Test — *July 2010 - Jan 2011*
  - **Localization test**: Led functionality and localization testing for SkyDrive product(Microsoft).

PROJECTS

- **[Web App]Job Hunting Assistant**: A web app that developed with Firebase Database that helps students to track their job application status and store related documents such as resume and cover letter.
- **[Android App]Weather Report**: An Android app that gets the current weather information of a chosen location via OpenWeatherMap API, displays the weather information on the map built with Google Maps API. It can also report the weather in voice. location can be set by mark dragging on map or by zip code. Users can save locations as favorite for quick access and set a nickname that the App will use in greeting message when reporting the weather in voice.
- **[iOS App]E-Closet**: An iOS app that helps users to manage their clothes by uploading a photo of a cloth to Firebase with three tags: Owner, Type, and Color. Users can filter their clothes with a combination of these three tags in case they cannot remember all the clothes they have, especially at the season changing time.
- **[Information Visualization]Yelp Rating Prediction and Visualization**: Built a Decision Tree model which predicts users rating based on features extracted from Yelp data. The visualization includes the complete process of the model, which provides insights about the inner mechanism of how the rating prediction is conducted.
- **[Machine Learning]Urban Sound Classification**: Machine learning practice with UrbanSound8K datasets, applied 4 supervised machine learning model including Logistic Regression, SVC, Random Forest, and Multi-layer Perceptron.

TEACHING EXPERIENCE

- **Teaching Assistant [Summer 2018]**: Designed lab contents for the Digital Design Lab class of ECEE Department, using C and Java. Helped manage the course labs and instruct students.
- **Coding Club Instructor [Fall 2017]**: Led an after-school coding club at Angevine Middle School in Lafayette, CO. Taught students coding concepts and computational thinking skills by building robots.

RELEVANT COURSEWORK

Web/Mobile App Development; Big Data Architecture; Applied Machine Learning; Information Visualization